

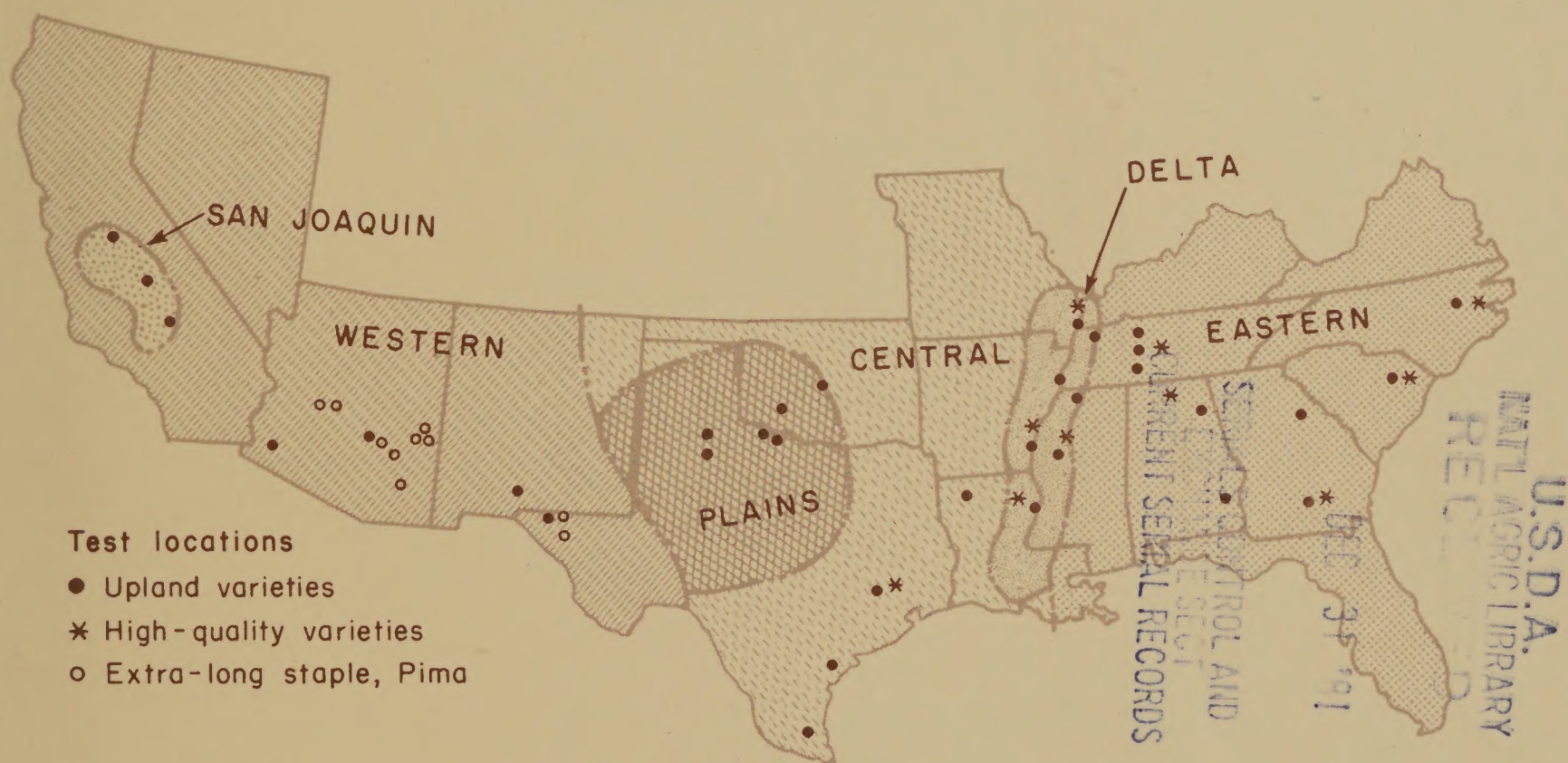
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Regional Cotton Variety Tests, 1978

Yield, Boll, and Spinning Data



Science and Education Administration
U.S. Department of Agriculture

REGIONAL COTTON VARIETY TESTS, 1978

Yield, Boll, and Spinning Data

Compiled by H. H. Ramey, Jr., research geneticist, and N. J. Acres, statistical assistant, Cotton Quality Laboratories, Science and Education Administration, in cooperation with the agricultural experiment stations of Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas

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1969	" " " " " ARS 34-123
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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. For the seventh 3-year cycle, beginning in 1978, the national standards are Acala SJ-5, Coker 310, Paymaster 303, and Stoneville 213. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of the varieties by the U.S. Department of Agriculture or the cooperating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While the details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures. Yield, boll size, lint percentage, and seed index are supplied by the cooperating stations. Fiber samples are sent to the Cotton Quality Laboratories, Science and Education Administration, Knoxville, Tenn., where fiber and yarn tests are made. (Fiber data for 1978 samples are not yet available and do not appear in this report.) All data are assembled in the Cotton Quality Laboratories, and the data are analyzed at the University of Tennessee Computer Center.

In 1978 the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all six regions. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region.

The regional tests and participating stations during the 1978 season were:

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station	Auburn, Ala.
Sand Mountain Substation	Crossville, Ala.
Georgia Coastal Plain Experiment Station	Tifton, Ga.
Georgia College Experiment Station	Athens, Ga.
Pee Dee Experiment Station	Florence, S.C.
Upper Coastal Plain Experiment Station	Rocky Mount, N.C.
West Tennessee Agricultural Experiment Station	Jackson, Tenn.
Ames Plantation	Grand Junction, Tenn.
Milan Field Station	Milan, Tenn.

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:	
Delta Substation	Clarkedale, Ark.
Southeast Branch Experiment Station	Rohwer, Ark.
Mississippi Agricultural and Forestry Experiment Station:	
Delta Branch	Stoneville, Miss.

Off-station test
Missouri Agricultural Experiment Station, Delta Center
Northeast Louisiana Experiment Station
West Tennessee Agricultural Experiment Station,
off-station test

Tunica, Miss.
Portageville, Mo.
St. Joseph, La.

Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station
Texas A&M University:

Agricultural Research and Extension Center
Agricultural Research Station, off-station test
Texas Agricultural Experiment Station

Bossier City, La.

Weslaco, Tex.
Nueces County, Tex.
College Station, Tex.

Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station:
Cotton Research Station (irrigated test)
Irrigation Experiment Station

Chickasha, Okla.
Altus, Okla.

Texas A&M University:

Agricultural Research and Extension Center
(Chillicothe):
Dryland test
Irrigated test
Agricultural Research and Extension Center
(Lubbock):
Irrigated test
Off-station test

Chillicothe, Tex.
Chillicothe, Tex.

Lubbock, Tex.
Halfway, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station:

Cotton Research Center
Yuma Valley Station

New Mexico Agricultural Experiment Station

Texas A&M University Agricultural Research Center

Phoenix, Ariz.
Yuma, Ariz.
Las Cruces, N. Mex.
El Paso, Tex.

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station:

West Side Field Station
Off-station tests:

Five Points, Calif.
Madera, Calif.
Maricopa, Calif.

High-Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station,
Tennessee Valley Substation

Belle Mina, Ala.

Arkansas Agricultural Experiment Station,
Southeast Branch

Rohwer, Ark.
Tifton, Ga.

Georgia Coastal Plain Experiment Station

Mississippi Agricultural and Forestry Experiment Station,
Delta Branch

Stoneville, Miss.

Missouri Agricultural Experiment Station,
 Delta Center
 Northeast Louisiana Experiment Station
 Pee Dee Experiment Station
 Texas Agricultural Experiment Station
 Upper Coastal Plain Experiment Station
 West Tennessee Agricultural Experiment Station

Portageville, Mo.
 St. Joseph, La.
 Florence, S.C.
 College Station, Tex.
 Rocky Mount, N.C.
 Jackson, Tenn.

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station:

Cotton Research Center

Off-station tests:

Marana Experimental Farm, off-station test

Safford Branch Station

Off-station tests:

Curtis farm

Layton farm

Texas A&M University:

Agricultural Research Center

Off-station test, Maros farm

Phoenix, Ariz.

Coolidge, Ariz.

Salome, Ariz.

Wenden, Ariz.

Marana, Ariz.

Safford, Ariz.

Safford, Ariz.

Safford, Ariz.

El Paso, Tex.

Fabens, Tex.

Combed-Yarn Test (American Pima Varieties)

American Pima cottons are commonly spun into combed yarns. In addition to the data taken at Knoxville, Tenn., combed-yarn tests of Pima cotton grown at four locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, U.S. Department of Agriculture, at its Clemson, S.C., laboratory. Classer's grade and staple, yarn tenacity of 11.8- and 7.4-tex (50's and 80's cotton count) yarns, appearance index, imperfections per 50 metres, and waste percentages are reported.

TEST RESULTS

No interpretation of the test results other than the indication of the significant differences among means based on an analysis of variance is presented. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's multiple-range test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to eight replications were planted, depending on the station, and six replications were more commonly used. Boll size, lint percentage, seed index, and fiber and yarn data are based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first two tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. For some tests, subregional summaries are also included. Following these tables average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Boll size. The mass, in grams per boll, of seed cotton.

Classer's designation. A description of the quality of cotton in terms of grade and staple according to the official cotton standards of the United States. For grade, classification is based on appearance and is accomplished chiefly through the sense of sight by integration of the three factors of grade--color, leaf, and preparation--in the sample. Classification for staple length involves both sight and touch and is made by pulling out and comparing a typical portion of fiber from a sample with the official staple types.

Colorimeter. These measurements were determined by the Nickerson-Hunter colorimeter (Spinlab model). Hunter's b value is a measure of increasing yellowness of the cotton. R_d is the percentage of the reflectance; the higher the value, the lighter the cotton.

Lint percent. The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

Lint yield. The mean production of the plots harvested, expressed in pounds of lint per acre.

Micronaire. The fineness of the sample taken from the ginned lint measured by the Micronaire and expressed in standard (curvilinear scale) micronaire units.

Seed index. The mass of 100 seeds, in grams.

Span length. Fiber length measured on the Digital Fibrograph. The distance spanned by a specified percentage of the fibers in the test specimen, where the initial starting point of the scanning in the test is considered 100 percent. The 2.5-percent span length is the length, in inches, on the test specimen spanned by 2.5 percent of the fibers scanned at the initial starting point. The 2.5-percent span length approximates classer's staple. The 50-percent span length is the length, in inches, on the test specimen spanned by 50 percent of the fibers scanned at the initial starting point.

Tex. The linear density of fibers, filaments, and yarns expressed as the mass, in milligrams, of 1 metre of fiber or yarn.

Waste. The difference in mass, expressed as a percentage, of the fed stock and delivered stock. Picker and card waste is the loss in mass during opening, picking, and carding. Comber waste is the loss in mass during combing.

Yarn appearance index. The relative evenness, smoothness, and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the standards adopted by the American Society for Testing and Materials. Higher numbers indicate more even and smooth yarns with less foreign material.

Yarn imperfections. The abrupt changes in the silhouette of the yarn while passing through a beam of light, expressed as the number of such changes per 50 metres of yarn.

Yarn tenacity. The strength of the yarn, expressed in centinewtons per tex (cN/tex).

EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 235	904 a	5.57 defg	39.6 de	10.3 h	4.68 cd
Coker 304	827 ab	5.63 def	39.8 cd	10.5 fgh	4.66 d
Stoneville 213	824 ab	5.42 g	39.0 ef	10.7 defg	4.98 ab
Stoneville 825N ...	824 ab	5.41 g	39.4 de	10.9 cde	4.94 b
Stoneville 603	812 ab	5.45 fg	39.0 efg	10.5 fgh	4.80 c
Deltapine 26	810 ab	5.23 h	41.3 a	10.4 fgh	5.06 ab
Stoneville 731N ...	810 ab	5.55 defg	39.8 cd	10.8 cde	5.08 a
Deltapine 61	807 ab	5.50 defg	39.1 e	10.7 cdef	4.98 ab
Deltapine 55	801 abc	5.15 h	41.3 a	9.6 i	4.53 de
Coker 315	799 abc	5.48 efg	40.7 ab	10.4 gh	4.80 c
McNair 220	797 abc	5.67 cde	38.9 efgh	10.6 efgh	4.67 cd
Coker 310	796 abc	5.67 cd	40.4 bc	10.6 efgh	4.66 d
S.C.-1	789 abc	5.09 h	39.6 de	11.0 bcd	4.48 def
Dixie King 3	783 abc	6.04 b	38.5 fgh	11.1 bc	4.45 ef
Coker 420	778 c	5.41 g	38.3 hi	10.6 efgh	4.67 d
Paymaster 303	675 c	6.23 a	37.8 i	11.5 a	4.44 ef
Acala SJ-5	509 d	5.81 c	38.4 ghi	11.2 ab	4.38 f
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 235	1.11 c	0.52 bc	74.8 abcd	8.9 ef	12.1 de
Coker 304	1.15 a	.52 b	73.7 e	9.2 bcd	12.0 de
Stoneville 213	1.09 c	.51 bc	74.6 abcde	9.5 a	11.3 f
Stoneville 825N ...	1.11 c	.51 bc	75.1 abc	9.1 bcde	11.5 ef
Stoneville 603	1.10 c	.51 bc	74.1 de	9.3 ab	11.6 ef
Deltapine 26	1.11 c	.52 bc	75.5 a	9.3 abc	11.7 ef
Stoneville 731N ...	1.10 c	.50 c	75.5 a	9.3 ab	11.2 fg
Deltapine 61	1.13 bc	.53 b	75.3 ab	9.2 bc	11.7 ef
Deltapine 55	1.12 c	.52 bc	74.8 abcd	9.2 bc	11.9 e
Coker 315	1.15 a	.54 ab	73.8 e	9.3 abc	12.2 de
McNair 220	1.11 c	.52 bc	74.4 bcde	8.9 def	12.2 de
Coker 310	1.14 ab	.53 b	74.0 de	9.1 bcde	12.3 d
S.C.-1	1.14 ab	.55 a	75.6 a	8.8 f	13.0 b
Dixie King 3	1.10 c	.52 b	74.4 bcde	9.1 bcde	12.0 de
Coker 420	1.15 a	.54 ab	73.9 de	9.0 cdef	12.7 c
Paymaster 303	1.06 d	.49 c	74.2 cde	9.2 bc	11.0 g
Acala SJ-5	1.13 abc	.54 ab	75.0 abc	8.8 ef	13.8 a

Table 2.--Eastern test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Florence, SC	1427 a	6.30 a	39.6 b	11.0 b	4.90 b
Crossville, AL	1008 b	5.25 d	39.6 b	11.0 bc	4.06 f
Ames Plantation, TN	960 c	5.62 c	39.5 b	10.8 cd	4.86 b
Jackson, TN	937 c	5.79 b	38.3 cd	10.8 bcd	5.23 a
Milan, TN	876 d	5.33 d	38.6 c	10.1 e	4.37 d
Tifton, GA	652 e	5.27 d	37.5 e	10.9 bc	4.75 c
Rocky Mt., NC	649 e	5.54 c	44.3 a	9.4 f	5.22 a
Auburn, AL	394 f	4.97 e	37.9 de	11.4 a	4.24 e
Athens, GA	170 g	5.85 b	39.8 b	10.7 d	4.83 b
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b
Florence, SC	1.12 d	0.52 bcd	77.4 a	9.4 b	11.7 de
Crossville, AL	1.14 b	.51 d	72.1 e	9.2 bc	11.9 cd
Ames Plantation, TN	1.13 cd	.53 b	75.1 c	9.0 cd	12.0 cd
Jackson, TN	1.10 e	.53 bc	72.2 e	9.7 a	11.9 cd
Milan, TN	1.09 e	.49 e	75.8 b	9.0 cd	11.8 cd
Tifton, GA	1.14 bc	.52 cd	75.0 c	8.4 e	12.0 c
Rocky Mt., NC	1.03 f	.50 e	74.0 d	8.9 d	11.6 e
Auburn, AL	1.13 cd	.51 d	74.8 c	9.3 b	12.4 b
Athens, GA	1.17 a	.57 a	75.3 bc	9.2 b	12.7 a

Table 3.--Eastern test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 26	1583 a	6.06	41.5	10.5	5.25
Deltapine 61	1562 a	6.20	40.5	11.7	5.10
Coker 315	1562 a	6.03	41.8	10.3	5.00
Coker 420	1561 a	6.01	39.2	9.8	4.95
S.C.-1	1555 a	5.98	39.3	11.6	4.65
McNair 235	1553 a	6.12	39.4	10.7	4.90
Coker 304	1537 ab	6.22	40.4	11.2	4.85
McNair 220	1517 ab	6.16	38.6	10.7	4.60
Coker 310	1504 ab	6.38	39.8	10.5	4.95
Deltapine 55	1495 ab	6.28	42.1	10.2	4.55
Stoneville 825N ...	1459 ab	6.20	39.2	11.3	5.20
Stoneville 213	1439 ab	6.21	39.2	10.9	5.20
Stoneville 603	1398 ab	6.17	37.4	12.2	4.80
Stoneville 731N ...	1393 ab	6.24	39.7	10.9	5.50
Dixie King 3	1358 b	7.17	39.0	11.7	4.70
Paymaster 303	1170 c	7.20	37.8	12.0	4.70
Acala SJ-5	607 d	6.48	38.6	11.5	4.45
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Deltapine 26	1.10	0.50	77.6	9.5	11.5
Deltapine 61	1.11	.53	78.9	9.1	11.3
Coker 315	1.14	.51	75.1	9.4	11.4
Coker 420	1.17	.56	76.5	9.4	12.5
S.C.-1	1.13	.55	78.3	9.1	13.0
McNair 235	1.09	.50	78.1	9.2	11.2
Coker 304	1.19	.56	76.3	9.3	11.6
McNair 220	1.12	.54	78.0	9.1	12.3
Coker 310	1.16	.53	76.6	9.6	11.8
Deltapine 55	1.15	.55	78.0	9.6	12.2
Stoneville 825N ...	1.13	.53	78.8	9.4	11.3
Stoneville 213	1.10	.50	76.8	9.8	11.0
Stoneville 603	1.10	.52	78.2	9.5	11.4
Stoneville 731N ...	1.13	.53	78.9	9.3	11.2
Dixie King 3	1.13	.54	77.5	9.5	12.4
Paymaster 303	1.06	.46	76.2	9.6	10.7
Acala SJ-5	1.11	.52	75.8	9.1	13.0

Table 4.--Eastern test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 235	1190 a	5.85	39.1	10.6	5.35
McNair 220	1063 b	6.15	37.9	10.7	5.10
Dixie King 3	1054 bc	6.54	37.0	11.4	4.85
Stoneville 213	1007 bcd	5.70	38.3	10.8	5.50
Stoneville 603	988 bcde	5.40	38.4	10.2	5.25
Coker 304	977 bcde	5.72	38.7	10.8	5.30
Stoneville 731N ...	973 bcde	5.51	38.8	10.7	5.50
Stoneville 825N ...	957 bcdef	5.53	37.5	11.2	5.50
Deltapine 26	953 cdef	5.38	38.9	10.7	5.55
Coker 310	951 cdef	6.13	38.3	10.8	5.10
S.C.-1	933 def	5.40	38.8	11.8	5.10
Coker 315	906 def	5.96	38.7	10.6	5.35
Deltapine 55	890 ef	5.31	41.0	9.3	5.10
Deltapine 61	852 fg	5.68	37.3	11.6	5.45
Acala SJ-5	783 gh	6.30	38.1	11.6	4.85
Coker 420	732 h	5.57	37.2	10.8	5.10
Paymaster 303	719 h	6.41	37.3	11.2	5.10
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
McNair 235	1.12	0.55	73.1	9.7	12.6
McNair 220	1.11	.55	72.3	9.5	12.5
Dixie King 3	1.09	.52	71.9	9.8	11.4
Stoneville 213	1.08	.51	72.7	10.1	11.3
Stoneville 603	1.08	.51	71.2	10.0	11.3
Coker 304	1.10	.50	68.8	10.0	11.6
Stoneville 731N ...	1.06	.49	73.6	9.8	11.0
Stoneville 825N ...	1.09	.51	74.9	9.7	11.2
Deltapine 26	1.09	.52	73.2	9.6	11.3
Coker 310	1.10	.53	71.1	9.5	12.4
S.C.-1	1.15	.58	73.2	9.0	13.1
Coker 315	1.15	.54	70.9	9.8	11.7
Deltapine 55	1.10	.53	71.1	10.1	11.2
Deltapine 61	1.15	.58	73.4	9.6	11.8
Acala SJ-5	1.10	.55	72.9	9.0	14.8
Coker 420	1.14	.56	71.9	9.8	13.1
Paymaster 303	1.04	.49	71.2	9.8	10.5

Table 5.--Eastern test: Yield, boll, and spinning data for Crossville, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 235	1153 a	5.45	39.5	11.2	4.15
Coker 304	1103 ab	5.45	40.7	10.6	4.20
Coker 310	1080 abc	5.22	40.6	10.6	4.10
Stoneville 825N ...	1074 abc	5.22	39.6	10.8	4.00
Coker 315	1062 abc	5.22	41.5	10.2	4.15
Stoneville 731N ...	1050 abc	5.45	39.7	11.5	4.30
Coker 420	1038 abc	5.22	40.1	10.6	4.10
Stoneville 213	1009 abc	5.22	39.0	11.8	4.45
Deltapine 61	963 bc	4.99	37.8	10.8	4.10
Stoneville 603	961 bc	4.77	38.4	10.2	3.65
Deltapine 26	955 bc	4.77	41.0	11.2	4.25
S.C.-1	951 bc	5.00	39.6	10.9	3.80
Deltapine 55	951 bc	4.77	40.2	10.7	3.75
Paymaster 303	950 bc	5.90	38.6	12.0	4.10
Dixie King 3	950 bc	5.90	38.6	11.0	3.70
Acala SJ-5	937 bc	5.22	39.0	11.3	4.15
McNair 220	925 c	5.45	39.1	11.5	4.20
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 235	1.15	0.53	72.0	9.0	12.6
Coker 304	1.16	.52	71.3	9.2	11.8
Coker 310	1.18	.54	72.5	9.1	12.5
Stoneville 825N ...	1.15	.51	72.0	8.8	11.6
Coker 315	1.18	.54	70.5	9.4	11.8
Stoneville 731N ...	1.10	.47	72.7	8.9	11.5
Coker 420	1.15	.51	71.5	9.0	12.3
Stoneville 213	1.15	.52	72.4	9.5	11.6
Deltapine 61	1.19	.53	72.5	9.3	12.1
Stoneville 603	1.12	.49	70.5	9.4	11.9
Deltapine 26	1.14	.50	73.4	9.6	12.0
S.C.-1	1.17	.56	73.9	9.1	12.9
Deltapine 55	1.15	.50	73.1	9.5	11.7
Paymaster 303	1.10	.49	70.4	9.2	10.9
Dixie King 3	1.13	.53	73.5	9.1	12.1
Acala SJ-5	1.13	.51	72.3	9.1	11.7
McNair 220	1.14	.52	71.0	9.4	12.1

Table 6.--Eastern test: Yield, boll, and spinning data for Grand Junction
(Ames Plantation), Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 731N ...	1106 a	5.40	40.0	10.5	5.10
Stoneville 825N ...	1053 ab	5.48	39.7	11.1	5.25
McNair 235	1050 ab	5.70	39.8	10.2	4.75
Deltapine 26	1043 abc	5.51	41.1	11.0	5.50
Stoneville 213	1019 bcd	5.42	39.4	11.0	5.20
Stoneville 603	998 bcd	5.55	39.3	10.8	5.05
Coker 310	980 bcde	5.42	39.8	10.6	4.60
Deltapine 61	969 cde	5.55	38.9	10.8	5.15
Deltapine 55	966 de	5.14	41.6	9.4	4.70
Coker 315	959 de	5.79	40.6	10.6	4.85
Coker 304	952 de	5.27	39.3	10.5	4.55
Coker 420	944 de	5.55	37.7	10.9	4.70
Dixie King 3	916 ef	6.20	38.3	11.1	4.55
McNair 220	904 efg	5.83	39.3	10.7	4.90
S.C.-1	868 fg	4.99	39.8	11.3	4.55
Paymaster 303	836 g	6.44	38.3	11.5	4.55
Acala SJ-5	759 h	6.43	38.6	11.6	4.70
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 731N ...	1.13	0.54	77.3	9.4	10.4
Stoneville 825N ...	1.14	.52	76.6	9.0	11.4
McNair 235	1.12	.53	74.9	8.8	11.9
Deltapine 26	1.11	.54	75.5	9.2	11.2
Stoneville 213	1.09	.52	74.1	9.4	10.8
Stoneville 603	1.11	.53	74.9	9.2	11.7
Coker 310	1.13	.50	76.0	9.1	12.7
Deltapine 61	1.12	.52	74.8	9.3	11.2
Deltapine 55	1.15	.54	75.3	9.2	11.9
Coker 315	1.18	.56	75.0	9.3	12.8
Coker 304	1.19	.55	74.1	9.2	12.3
Coker 420	1.19	.55	74.2	9.1	12.8
Dixie King 3	1.11	.55	74.2	8.8	11.8
McNair 220	1.10	.52	76.2	8.4	12.5
S.C.-1	1.13	.56	75.6	8.7	12.7
Paymaster 303	1.09	.50	73.0	9.0	11.3
Acala SJ-5	1.15	.58	75.7	8.8	14.3

Table 7.--Eastern test: Yield, boll, and spinning data for Milan, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 235	991 a	5.25	37.8	9.6	4.05
Stoneville 213	985 ab	5.27	38.0	10.0	4.30
Dixie King 3	935 abc	5.61	37.7	9.7	3.90
Stoneville 603	933 abc	5.40	39.2	9.6	4.60
Deltapine 61	896 abc	5.42	38.2	10.4	4.75
Stoneville 825N ...	896 abc	4.92	38.5	10.6	4.50
Stoneville 731N ...	895 abc	5.20	39.4	10.3	4.70
Deltapine 26	894 abc	4.58	40.9	9.9	4.80
Coker 310	863 bcd	5.53	39.1	10.1	4.45
Paymaster 303	860 bcd	6.22	36.8	10.9	4.10
Deltapine 55	859 bcd	4.73	40.2	8.9	4.15
Coker 304	843 cd	5.59	38.6	9.9	4.45
McNair 220	823 cd	5.37	37.3	10.3	4.35
Coker 315	818 cd	5.40	39.6	9.8	4.45
S.C.-1	815 cd	4.58	39.6	10.2	4.05
Coker 420	814 cd	5.38	37.7	9.9	4.35
Acala SJ-5	767 d	6.24	38.4	11.3	4.45
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 235	1.11	0.48	75.2	8.4	11.8
Stoneville 213	1.06	.48	76.3	9.8	11.4
Dixie King 3	1.06	.48	75.9	8.9	12.1
Stoneville 603	1.06	.47	75.0	9.3	11.1
Deltapine 61	1.09	.49	74.7	9.0	11.5
Stoneville 825N ...	1.07	.47	75.9	9.2	11.4
Stoneville 731N ...	1.07	.47	76.8	9.0	10.7
Deltapine 26	1.07	.48	77.6	9.4	11.5
Coker 310	1.14	.52	75.7	9.0	11.9
Paymaster 303	1.05	.48	76.2	9.0	10.9
Deltapine 55	1.08	.48	75.1	9.2	11.7
Coker 304	1.10	.49	76.2	9.3	12.0
McNair 220	1.12	.53	75.5	9.0	11.6
Coker 315	1.14	.53	75.8	8.9	12.5
S.C.-1	1.13	.50	76.9	8.9	12.7
Coker 420	1.15	.54	74.5	8.8	12.9
Acala SJ-5	1.12	.54	75.8	8.9	13.6

Table 8.--Eastern test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	833 a	5.42	37.6	----	4.75
Deltapine 61	829 a	5.52	38.7	10.2	5.00
McNair 235	808 a	5.66	38.0	----	4.85
Deltapine 55	800 a	5.08	40.3	9.6	4.65
S.C.-1	786 ab	4.79	37.5	11.3	4.60
Stoneville 825N ...	747 ab	5.30	37.5	11.3	5.15
Stoneville 603	732 ab	5.67	36.3	10.9	4.85
Stoneville 213	709 ab	5.14	37.0	10.5	4.85
Coker 420	709 ab	4.95	36.4	10.9	4.75
Coker 315	690 ab	4.81	39.7	10.3	4.75
Deltapine 26	683 ab	5.35	41.1	10.5	5.10
Stoneville 731N ...	636 b	5.88	37.4	11.1	5.25
Coker 304	630 b	5.52	37.1	10.4	4.65
Coker 310	474 c	5.43	37.1	11.2	4.75
Dixie King 3	453 c	5.50	36.4	11.7	4.45
Paymaster 303	438 c	5.26	35.9	12.1	4.45
Acala SJ-5	127 d	4.47	34.7	12.1	4.00
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 220	1.11	0.49	73.8	8.0	12.0
Deltapine 61	1.16	.55	77.9	8.6	11.9
McNair 235	1.13	.53	75.5	8.4	12.2
Deltapine 55	1.15	.52	76.5	8.7	12.1
S.C.-1	1.16	.56	76.5	8.3	12.9
Stoneville 825N ...	1.11	.51	74.8	7.8	11.6
Stoneville 603	1.12	.53	75.4	8.4	11.5
Stoneville 213	1.11	.51	73.8	8.9	11.0
Coker 420	1.17	.53	74.2	8.3	12.7
Coker 315	1.17	.53	74.1	8.8	12.5
Deltapine 26	1.12	.54	76.6	8.7	11.7
Stoneville 731N ...	1.13	.52	75.9	8.6	12.0
Coker 304	1.18	.51	74.9	8.6	12.6
Coker 310	1.17	.53	73.5	8.7	12.7
Dixie King 3	1.11	.52	72.6	7.8	11.7
Paymaster 303	1.08	.49	76.0	8.9	11.2
Acala SJ-5	1.16	.52	75.4	8.9	12.8

Table 9.--Eastern test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 304	787 a	5.60	44.1	9.3	4.80
Deltapine 55	770 ab	5.13	46.8	8.7	5.30
Dixie King 3	759 abc	5.40	44.4	9.8	5.25
Coker 310	751 abc	5.64	49.9	9.3	5.10
Coker 315	733 abc	5.34	45.5	8.9	5.35
McNair 235	712 abcd	5.44	43.5	8.8	5.10
Stoneville 603	693 abcd	5.57	46.2	9.7	5.65
Deltapine 26	691 abcd	5.26	47.0	8.9	5.70
Coker 420	677 abcd	5.40	42.0	9.5	4.90
Deltapine 61	673 bcd	5.32	45.1	9.0	5.65
Stoneville 213	652 cd	5.28	44.4	9.2	5.75
S.C.-1	647 cd	5.26	44.2	9.1	5.15
Stoneville 825N ...	612 de	5.55	44.6	10.2	5.35
Stoneville 731N ...	608 de	5.47	43.2	9.7	5.50
Paymaster 303	534 e	6.38	40.0	10.1	4.60
McNair 220	509 e	6.03	42.8	9.6	5.10
Acala SJ-5	222 f	6.13	40.6	10.3	4.65
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Coker 304	1.11	0.51	73.7	8.5	11.5
Deltapine 55	1.01	.49	74.7	9.0	11.1
Dixie King 3	1.01	.48	72.3	9.3	12.2
Coker 310	1.06	.50	72.9	8.6	11.0
Coker 315	1.04	.52	74.4	8.9	11.7
McNair 235	1.01	.49	74.4	8.0	12.2
Stoneville 603	1.05	.49	72.9	9.7	11.6
Deltapine 26	1.02	.51	74.8	9.1	11.4
Coker 420	1.08	.52	73.5	8.3	11.8
Deltapine 61	1.03	.52	75.8	9.0	11.0
Stoneville 213 ....	.98	.48	75.1	9.4	10.9
S.C.-1	1.03	.53	75.7	8.5	11.8
Stoneville 825N ...	1.04	.49	71.3	9.4	11.4
Stoneville 731N ...	1.02	.47	71.7	9.5	11.3
Paymaster 303	1.02	.48	74.7	8.6	10.4
McNair 220	1.01	.50	74.3	8.5	12.5
Acala SJ-5	1.07	.52	75.7	8.4	13.4

Table 10.--Eastern test: Yield, boll, and spinning data for Auburn, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 235	482 a	5.00	38.4	11.0	4.35
Stoneville 731N ...	463 ab	4.99	39.4	11.1	4.50
Stoneville 825N ...	436 abc	4.77	37.8	11.1	4.40
Coker 304	436 abc	5.00	38.5	11.5	4.25
Stoneville 603	430 abc	4.77	38.0	10.9	4.40
Dixie King 3	427 abcd	5.67	36.3	11.8	4.00
Paymaster 303	415 abcde	5.67	36.9	12.7	4.00
Stoneville 213	410 abcde	4.77	37.0	11.5	4.40
McNair 220	402 abcdef	4.77	38.2	10.4	4.30
Coker 310	381 bcdef	5.22	38.3	11.5	4.25
Coker 315	377 bcdef	5.00	38.5	11.8	4.40
Coker 420	369 bcdef	5.22	36.6	12.4	4.30
S.C.-1	360 cdef	4.54	37.9	11.6	3.90
Deltapine 26	344 def	4.77	39.1	11.1	4.40
Deltapine 61	333 ef	5.00	37.0	11.9	4.45
Deltapine 55	323 ef	4.31	38.4	10.6	3.90
Acala SJ-5	310 f	5.00	38.1	11.7	4.00
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 235	1.12	0.51	74.8	9.1	12.3
Stoneville 731N ...	1.13	.52	75.7	9.7	11.5
Stoneville 825N ...	1.13	.50	75.1	9.2	11.7
Coker 304	1.14	.50	73.5	9.2	12.2
Stoneville 603	1.13	.52	74.4	9.9	11.7
Dixie King 3	1.12	.53	75.8	9.0	12.1
Paymaster 303	1.06	.47	75.5	9.3	11.7
Stoneville 213	1.11	.52	75.1	9.5	11.9
McNair 220	1.11	.50	72.5	9.2	11.9
Coker 310	1.18	.55	73.6	9.3	12.8
Coker 315	1.18	.53	73.9	9.7	12.6
Coker 420	1.15	.51	74.6	9.2	12.9
S.C.-1	1.16	.54	75.8	8.8	13.8
Deltapine 26	1.14	.53	75.5	9.1	12.7
Deltapine 61	1.13	.51	74.4	9.7	12.5
Deltapine 55	1.13	.50	74.7	9.2	12.6
Acala SJ-5	1.14	.55	77.2	9.2	14.3

Table 11.--Eastern test: Yield, boll, and spinning data for Athens, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Dixie King 3	198 a	6.35	39.5	11.5	4.65
McNair 235	195 ab	5.72	41.0	10.3	4.65
McNair 220	193 ab	5.87	39.7	11.2	4.80
Deltapine 61	188 abc	5.85	38.4	10.6	5.20
S.C.-1	186 abc	5.32	39.7	11.0	4.55
Stoneville 213	185 abcd	5.76	39.4	10.9	5.20
Coker 315	184 abcd	5.79	40.6	11.3	4.90
Stoneville 825N ...	184 abcd	5.78	39.9	10.5	5.15
Coker 310	179 abcd	6.12	40.5	11.1	4.70
Coker 304	177 abcd	6.29	41.0	10.4	4.95
Stoneville 603	176 abcd	5.81	38.0	10.2	4.95
Stoneville 731N ...	165 bcde	5.88	40.5	11.7	5.45
Coker 420	160 cde	5.39	38.2	10.7	4.90
Paymaster 303	154 de	6.60	38.6	10.9	4.40
Deltapine 55	154 de	5.60	40.9	9.5	4.75
Deltapine 26	143 e	5.42	41.0	10.4	5.00
Acala SJ-5	70 f	6.04	39.5	10.0	4.30
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Dixie King 3	1.13	0.57	76.0	9.5	12.2
McNair 235	1.16	.56	75.7	9.2	12.4
McNair 220	1.16	.55	76.0	9.4	12.5
Deltapine 61	1.20	.57	75.4	9.7	12.1
S.C.-1	1.21	.59	74.6	8.9	13.8
Stoneville 213	1.16	.58	75.5	9.7	12.1
Coker 315	1.22	.58	74.5	9.2	12.9
Stoneville 825N ...	1.16	.57	76.9	9.2	12.0
Coker 310	1.20	.60	74.5	9.0	13.0
Coker 304	1.21	.57	74.6	9.5	12.8
Stoneville 603	1.15	.56	74.2	8.6	12.2
Stoneville 731N ...	1.16	.55	77.5	9.8	11.7
Coker 420	1.20	.57	74.7	9.3	13.0
Paymaster 303	1.10	.52	75.1	9.8	11.4
Deltapine 55	1.17	.56	75.2	8.9	12.6
Deltapine 26	1.20	.59	76.0	9.6	12.3
Acala SJ-5	1.18	.59	74.7	8.3	15.5

DELTA REGIONAL COTTON VARIETY TEST

Table 12.--Delta test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	949 a	5.59 de	38.4 d	11.6 bc	5.25 a
DES 56	945 a	5.15 f	38.4 de	11.1 d	4.97 b
Deltapine 55	932 a	5.40 ef	40.3 a	10.5 e	4.85 bc
Stoneville 731N ...	931 a	5.27 f	39.5 b	11.1 d	5.17 a
Deltapine 61	920 a	5.76 cd	39.1 bc	11.0 d	5.24 a
Stoneville 256	910 a	5.52 de	39.0 bc	10.9 d	5.20 a
Coker 310	898 a	5.89 bc	39.2 b	11.5 c	4.88 bc
DES 24	885 a	5.64 cde	38.6 cd	11.9 b	4.97 b
Paymaster 303	744 b	6.18 a	37.9 e	12.6 a	4.83 c
Rex 713	703 c	6.05 ab	34.8 f	12.6 a	4.64 d
Acala SJ-5	593 d	6.23 a	38.4 de	12.4 a	4.81 c
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.14 cd	0.54 bcd	74.7 ab	8.5 a	11.6 hi
DES 56	1.15 bc	.54 abcd	74.4 b	8.2 bcd	12.3 def
Deltapine 55	1.16 b	.53 cde	75.2 a	8.1 cde	12.6 c
Stoneville 731N ...	1.13 d	.51 fg	75.1 ab	8.0 e	11.7 ghi
Deltapine 61	1.17 b	.55 ab	75.1 ab	8.0 de	12.4 de
Stoneville 256	1.15 bc	.53 de	75.0 ab	8.3 bc	12.1 efg
Coker 310	1.20 a	.56 a	73.1 c	8.3 bc	13.3 b
DES 24	1.17 b	.54 abc	73.3 c	8.4 ab	12.6 d
Paymaster 303	1.09 e	.50 g	73.5 c	8.3 ab	11.8 fgh
Rex 713	1.14 cd	.53 ef	74.7 ab	8.3 ab	11.3 i
Acala SJ-5	1.17 b	.57 a	74.8 ab	8.1 cde	15.0 a

Table 13.--Delta test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
St. Joseph, LA	1223 a	6.20 a	40.6 a	11.5 c	5.22 b
Stoneville, MS	959 b	5.48 c	35.3 e	11.4 c	4.53 e
Tunica, MS	946 bc	5.71 b	38.4 c	11.4 cd	4.71 d
Portageville, MO ...	917 c	6.10 a	38.0 d	12.8 a	5.25 b
Clarkedale, AR	850 d	5.74 b	39.3 b	11.1 d	4.75 d
Rohwer, AR	701 e	5.29 c	39.3 b	12.1 b	5.45 a
Ridgely, TN	368 f	5.36 c	38.7 c	10.6 e	4.94 c
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
St. Joseph, LA	1.18 a	0.58 a	75.2 c	8.5 b	12.4 c
Stoneville, MS	1.19 a	.55 b	70.3 e	7.1 e	13.2 a
Tunica, MS	1.15 b	.54 b	77.7 a	8.1 d	12.9 ab
Portageville, MO ...	1.12 c	.51 d	69.7 e	8.2 cd	11.8 d
Clarkedale, AR	1.15 b	.52 c	77.4 a	8.2 cd	12.5 bc
Rohwer, AR	1.15 b	.55 b	76.6 b	9.1 a	12.4 c
Ridgely, TN	1.12 c	.52 c	74.3 d	9.3 c	11.9 d

Table 14.--Delta test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	1453 a	6.32	42.8	10.3	5.00
Deltapine 61	1438 a	6.44	41.2	11.0	5.55
DES 56	1318 ab	5.41	40.9	10.9	5.25
Stoneville 256	1312 ab	6.38	40.8	11.3	5.55
Stoneville 731N ...	1308 ab	5.67	40.8	11.1	5.30
Coker 310	1288 abc	6.86	41.6	11.5	5.20
Stoneville 213	1216 bcd	5.68	41.0	10.9	5.60
DES 24	1114 cde	5.73	41.3	11.8	5.40
Paymaster 303	1066 de	6.64	40.2	12.5	5.00
Acala SJ-5	994 e	6.40	41.2	12.3	5.00
Rex 713	944 e	6.74	34.7	12.8	4.65
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Deltapine 55	1.19	0.57	75.7	8.5	12.4
Deltapine 61	1.19	.60	76.3	8.4	12.4
DES 56	1.17	.58	75.6	8.3	12.5
Stoneville 256	1.20	.58	76.4	8.9	11.9
Stoneville 731N ...	1.19	.55	76.4	8.3	11.7
Coker 310	1.23	.60	73.5	8.8	13.3
Stoneville 213	1.19	.60	75.2	8.7	12.0
DES 24	1.20	.60	73.8	8.8	12.9
Paymaster 303	1.13	.55	75.3	8.8	11.7
Acala SJ-5	1.17	.57	75.1	8.1	14.6
Rex 713	1.18	.56	74.2	8.5	11.5

Table 15.--Delta test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 731N ...	1175 a	6.20	39.4	12.4	5.15
DES 56	1157 a	5.65	37.5	12.4	5.15
Stoneville 213	1110 ab	6.20	36.7	12.8	5.45
Stoneville 256	1106 ab	5.95	38.9	11.9	5.45
Deltapine 55	1018 ab	5.75	40.2	11.5	5.30
Deltapine 61	935 b	6.15	38.6	12.6	5.55
Coker 310	930 b	5.95	38.5	13.4	5.10
DES 24	913 b	6.10	38.7	13.5	5.25
Paymaster 303	662 c	6.50	38.1	14.4	5.30
Rex 713	658 c	6.30	34.2	14.0	5.10
Acala SJ-5	418 d	6.45	37.2	12.5	5.00
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 731N ...	1.10	0.49	69.7	7.8	12.0
DES 56	1.10	.49	69.3	8.2	11.5
Stoneville 213	1.11	.52	71.0	8.5	10.8
Stoneville 256	1.12	.50	70.1	8.4	11.5
Deltapine 55	1.14	.51	70.3	7.9	12.3
Deltapine 61	1.13	.53	70.0	7.8	11.8
Coker 310	1.18	.54	69.2	8.1	12.5
DES 24	1.14	.53	69.0	8.5	12.1
Paymaster 303	1.06	.47	69.9	9.0	10.9
Rex 713	1.07	.47	68.5	8.7	10.5
Acala SJ-5	1.14	.54	70.1	8.0	14.2

Table 16.--Delta test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
DES 56	1125 a	4.83	36.0	10.8	4.55
Deltapine 61	1055 b	5.41	35.9	10.5	4.85
Coker 310	998 bc	5.73	35.6	11.6	4.40
Stoneville 213	994 bc	5.23	35.4	11.6	4.70
Stoneville 256	965 cd	5.23	35.7	10.5	4.60
DES 24	964 cd	5.63	35.1	12.3	4.50
Deltapine 55	956 cd	4.99	36.8	10.0	4.50
Stoneville 731N ...	950 cd	4.99	36.5	10.9	4.65
Paymaster 303	915 d	6.27	34.6	12.5	4.55
Rex 713	821 e	6.04	31.8	13.1	4.25
Acala SJ-5	804 e	5.91	35.6	12.4	4.40
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
DES 56	1.18	0.56	69.7	7.5	12.2
Deltapine 61	1.20	.57	73.4	7.0	13.1
Coker 310	1.22	.56	68.4	7.2	14.3
Stoneville 213	1.19	.56	69.3	7.2	11.8
Stoneville 256	1.21	.54	71.1	6.9	13.2
DES 24	1.20	.55	68.9	7.1	13.5
Deltapine 55	1.18	.54	73.2	7.2	14.0
Stoneville 731N ...	1.18	.54	70.6	6.8	11.5
Paymaster 303	1.13	.52	66.9	6.7	13.0
Rex 713	1.18	.54	71.9	7.4	11.8
Acala SJ-5	1.22	.57	69.5	7.2	17.4

Table 17.--Delta test: Yield, boll, and spinning data for Tunica, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1052 a	5.63	38.5	11.0	5.10
DES 24	1049 a	5.71	38.8	11.6	4.75
Deltapine 55	1028 ab	5.13	40.0	10.7	4.50
DES 56	1018 ab	5.15	38.1	10.9	4.70
Deltapine 61	1014 ab	5.79	38.5	11.0	5.00
Coker 310	1000 ab	6.22	38.0	11.8	4.75
Stoneville 731N ...	977 abc	5.07	39.5	11.1	4.85
Stoneville 256	928 bc	5.22	39.2	10.6	5.00
Rex 713	879 cd	6.11	36.1	12.0	4.40
Paymaster 303	803 d	6.14	37.2	12.2	4.35
Acala SJ-5	654 e	6.69	39.1	12.6	4.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.17	0.56	77.8	8.2	11.7
DES 24	1.18	.55	76.9	8.3	12.7
Deltapine 55	1.14	.51	77.7	7.8	13.2
DES 56	1.17	.55	77.1	8.3	13.1
Deltapine 61	1.18	.55	78.7	8.2	12.8
Coker 310	1.20	.58	76.5	8.4	13.6
Stoneville 731N ...	1.13	.51	78.6	7.8	11.8
Stoneville 256	1.13	.52	78.2	8.2	12.7
Rex 713	1.16	.54	78.5	8.2	11.9
Paymaster 303	1.09	.50	77.3	7.9	12.7
Acala SJ-5	1.18	.58	77.5	7.9	15.9

Table 18.--Delta test: Yield, boll, and spinning data for Clarkedale, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	980 a	5.94	40.8	10.4	4.70
Deltapine 55	953 a	5.68	40.8	10.5	4.55
Stoneville 213	946 a	5.81	38.3	12.0	4.90
Coker 310	936 a	5.12	41.9	11.2	4.75
Paymaster 303	886 ab	6.24	38.0	12.1	4.60
Stoneville 731N ...	875 ab	5.35	39.9	10.0	5.25
Stoneville 256	856 ab	5.31	40.6	10.8	5.00
DES 56	835 ab	5.37	38.8	11.3	4.90
DES 24	832 ab	5.92	39.2	10.6	4.70
Rex 713	634 b	6.00	36.0	11.3	4.45
Acala SJ-5	619 b	6.41	38.8	12.3	4.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Deltapine 61	1.19	0.54	76.5	7.6	13.0
Deltapine 55	1.17	.55	78.0	8.2	13.1
Stoneville 213	1.10	.49	78.0	9.0	11.7
Coker 310	1.19	.55	75.4	7.8	13.1
Paymaster 303	1.10	.49	76.7	8.2	11.7
Stoneville 731N ...	1.09	.48	79.0	8.3	12.0
Stoneville 256	1.14	.52	77.0	8.3	12.3
DES 56	1.17	.55	78.2	8.6	12.3
DES 24	1.16	.53	76.2	8.4	12.7
Rex 713	1.15	.52	78.8	7.9	11.4
Acala SJ-5	1.19	.57	77.8	8.2	14.9

Table 19.--Delta test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	857 a	5.35	40.1	12.7	5.70
Deltapine 55	795 ab	4.83	41.3	11.2	5.45
Stoneville 731N ...	784 ab	4.73	40.4	12.1	5.80
DES 56	780 ab	5.09	39.7	11.8	5.60
Coker 310	719 abc	5.54	39.4	10.2	5.10
Stoneville 256	693 abcd	5.17	38.4	11.2	5.65
DES 24	691 abcd	5.04	38.8	12.5	5.25
Rex 713	670 bcd	5.71	35.9	13.7	5.05
Deltapine 61	645 bcd	5.54	39.5	11.5	5.85
Paymaster 303	568 cd	5.45	39.5	13.2	5.35
Acala SJ-5	514 d	5.76	39.8	13.4	5.25
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Stoneville 213	1.16	0.57	77.8	9.5	12.1
Deltapine 55	1.18	.55	76.6	8.9	12.0
Stoneville 731N ...	1.14	.53	77.9	8.7	12.0
DES 56	1.16	.54	76.6	9.0	12.3
Coker 310	1.21	.58	75.9	9.2	14.0
Stoneville 256	1.16	.55	77.7	9.4	12.1
DES 24	1.18	.57	74.7	9.0	12.6
Rex 713	1.14	.55	76.6	9.1	11.4
Deltapine 61	1.16	.56	76.8	9.1	12.1
Paymaster 303	1.08	.49	75.4	9.4	11.5
Acala SJ-5	1.12	.56	76.8	8.9	14.5

Table 20.--Delta test: Yield, boll, and spinning data for Ridgely, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 256	513 a	5.40	39.9	10.4	5.15
Stoneville 213	469 ab	5.23	39.2	10.2	5.35
Stoneville 731N ...	450 abc	4.88	40.2	10.2	5.25
Coker 310	412 bcd	5.81	39.4	10.9	4.90
DES 56	382 bcde	4.58	37.7	10.0	4.70
Deltapine 61	371 bcde	5.05	39.3	10.1	5.20
DES 24	362 cde	5.40	38.8	11.0	5.00
Deltapine 55	324 de	5.09	40.7	9.4	4.70
Rex 713	312 de	5.44	35.3	11.8	4.60
Paymaster 303	305 e	6.04	37.8	11.3	4.70
Acala SJ-5	150 f	6.02	37.2	11.5	4.85
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 256	1.11	0.51	74.9	8.0	11.3
Stoneville 213	1.08	.50	74.3	8.6	11.3
Stoneville 731N ...	1.10	.49	73.8	8.2	11.0
Coker 310	1.16	.52	73.3	8.5	12.3
DES 56	1.13	.54	74.5	8.0	12.2
Deltapine 61	1.12	.54	74.4	8.3	11.8
DES 24	1.12	.50	74.1	8.8	11.9
Deltapine 55	1.12	.51	75.4	8.2	11.6
Rex 713	1.12	.51	75.0	8.6	10.6
Paymaster 303	1.09	.50	73.6	8.4	11.5
Acala SJ-5	1.17	.62	74.0	7.8	15.1

CENTRAL REGIONAL COTTON VARIETY TEST

Table 21.--Central test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	796 a	5.18 c	38.5 b	10.5 c	4.66 c
Stoneville 256	773 ab	5.23 c	37.5 bc	10.5 c	5.08 a
Deltapine 55	770 ab	5.01 cd	40.2 a	9.4 d	4.91 ab
Stoneville 731N ...	716 ab	4.85 d	37.4 c	10.5 c	4.81 bc
Deltapine 16	637 abc	5.55 ab	37.4 c	10.8 bc	4.86 b
Stoneville 213	635 abc	5.26 bc	37.7 bc	10.7 bc	5.08 a
Coker 310	601 abc	5.27 bc	37.4 c	11.0 b	4.66 cd
Paymaster 303	565 bc	5.76 a	36.0 d	11.6 a	4.51 d
Acala SJ-5	476 c	5.60 a	38.1 bc	11.6 a	4.57 d
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 220	1.08 ab	0.49 b	65.0 d	7.3 e	12.8 b
Stoneville 256	1.10 a	.50 b	68.2 b	7.3 e	11.4 e
Deltapine 55	1.08 ab	.48 b	68.2 b	7.5 de	12.1 c
Stoneville 731N ...	1.10 a	.49 b	67.1 bc	7.4 d	11.5 de
Deltapine 16	1.10 a	.49 b	70.5 a	7.7 cd	11.9 cd
Stoneville 213	1.08 ab	.50 b	67.7 bc	7.8 bc	11.6 de
Coker 310	1.11 a	.49 b	66.5 c	8.0 ab	12.1 c
Paymaster 303	1.07 b	.48 b	67.3 bc	8.1 a	11.7 cde
Acala SJ-5	1.11 a	.52 a	68.1 b	7.8 bc	14.4 a

Table 22.--Central test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
College Station, TX	919 a	5.38 ab	35.9 c	10.9 ab	4.57 c
Nueces County, TX .	926 b	5.32 b	38.5 b	10.3 c	4.77 b
Weslaco, TX	582 c	5.56 a	35.4 c	11.1 a	4.48 c
Bossier City, LA ..	426 d	4.95 c	41.4 a	10.7 b	5.35 a
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
College Station, TX	1.14 a	0.50 b	63.7 c	6.2 d	11.9 bc
Nueces County, TX .	1.02 c	.44 d	63.1 c	7.3 c	11.6 c
Weslaco, TX	1.15 a	.54 a	71.0 b	8.7 a	13.1 a
Bossier City, LA ..	1.06 b	.49 c	72.7 a	8.4 b	12.0 b

Table 23.--Central test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	1213 a	5.05	38.8	9.3	4.75
McNair 220	1097 ab	5.20	37.1	11.0	4.40
Stoneville 731N ...	1077 abc	4.83	35.6	10.6	4.60
Stoneville 256	941 bcd	5.56	35.2	11.0	4.80
Coker 310	851 bcd	5.43	35.8	10.8	4.30
Stoneville 213	836 cd	5.38	36.0	10.6	4.75
Paymaster 303	769 d	5.57	34.5	11.9	4.55
Deltapine 16	769 d	5.60	34.4	10.8	4.45
Acala SJ-5	716 d	5.79	35.8	12.1	4.55
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Deltapine 55	1.14	0.49	64.4	6.0	12.0
McNair 220	1.13	.50	60.3	6.0	12.4
Stoneville 731N ...	1.14	.49	63.2	5.7	11.2
Stoneville 256	1.17	.51	65.5	5.9	11.2
Coker 310	1.10	.48	64.2	6.9	10.5
Stoneville 213	1.14	.51	63.3	6.3	11.5
Paymaster 303	1.18	.52	61.1	6.6	11.6
Deltapine 16	1.14	.49	68.1	6.4	12.0
Acala SJ-5	1.17	.53	63.4	6.1	14.7

Table 24.--Central test: Yield, boll, and spinning data for Nueces County, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 256	1019 a	5.32	38.5	10.2	5.10
McNair 220	885 ab	5.68	40.3	9.9	4.45
Deltapine 16	768 abc	5.69	38.5	10.7	5.00
Coker 310	720 abc	5.09	38.8	10.3	4.90
Stoneville 731N ...	696 bc	4.73	38.8	9.6	4.85
Paymaster 303	662 bc	5.75	36.5	10.7	4.35
Deltapine 55	651 bc	5.12	40.4	9.6	5.00
Stoneville 213	634 bc	5.34	38.0	10.9	5.00
Acala SJ-5	498 c	5.19	37.1	11.2	4.35
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Stoneville 256	1.00	0.44	62.7	6.7	11.3
McNair 220	1.04	.45	59.8	6.9	12.8
Deltapine 16	1.06	.46	65.7	7.2	11.0
Coker 310	1.02	.43	62.0	7.6	12.1
Stoneville 731N ...	1.01	.45	64.6	7.3	11.3
Paymaster 303 .....	.98	.42	63.5	8.0	11.0
Deltapine 55	1.02	.45	62.6	6.9	11.4
Stoneville 213	1.01	.45	63.3	7.7	10.4
Acala SJ-5	1.03	.47	63.7	7.5	13.6

Table 25.--Central test: Yield, boll, and spinning data for Weslaco, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	831 a	5.33	34.5	11.1	4.30
Deltapine 55	666 b	5.19	37.6	9.6	4.45
Stoneville 731N ...	644 bc	5.10	35.4	11.1	4.70
Stoneville 256	590 bcd	5.32	35.3	10.7	4.85
Stoneville 213	576 bcd	5.58	35.5	11.0	4.90
Coker 310	551 cd	5.88	34.2	11.9	4.30
Deltapine 16	523 d	5.65	34.8	11.2	4.50
Paymaster 303	492 d	6.37	32.3	12.5	4.15
Acala SJ-5	369 e	5.65	39.2	10.9	4.20
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
McNair 220	1.15	0.54	70.5	8.6	13.4
Deltapine 55	1.12	.51	71.7	8.7	13.4
Stoneville 731N ...	1.15	.54	69.1	8.4	12.4
Stoneville 256	1.17	.55	72.4	8.8	12.5
Stoneville 213	1.15	.57	70.8	8.6	13.0
Coker 310	1.21	.57	69.7	9.0	13.6
Deltapine 16	1.17	.54	72.4	8.7	12.6
Paymaster 303	1.10	.51	72.4	9.0	12.1
Acala SJ-5	1.16	.57	70.4	8.7	14.9

Table 26.--Central test: Yield, boll, and spinning data for Bossier City, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	550 a	4.70	44.1	9.3	5.45
Stoneville 256	543 a	4.74	41.0	10.2	5.60
Stoneville 213	494 ab	4.74	41.5	10.2	5.70
Deltapine 16	490 ab	5.26	42.0	10.6	5.50
Stoneville 731N ...	445 abc	4.76	39.7	10.8	5.10
McNair 220	370 bc	4.52	42.3	10.2	5.50
Paymaster 303	338 bc	5.38	40.6	11.5	5.00
Acala SJ-5	323 c	5.79	40.5	12.2	5.20
Coker 310	282 c	4.68	41.1	11.1	5.15
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Deltapine 55	1.05	0.49	74.3	8.5	11.7
Stoneville 256	1.08	.49	72.4	8.0	10.6
Stoneville 213	1.03	.48	73.4	8.6	11.5
Deltapine 16	1.04	.48	75.8	8.5	12.0
Stoneville 731N ...	1.11	.49	71.5	8.2	11.3
McNair 220	1.02	.49	69.5	7.9	12.5
Paymaster 303	1.02	.47	72.3	8.8	12.0
Acala SJ-5	1.08	.52	74.8	8.9	14.4
Coker 310	1.10	.49	70.3	8.7	12.4

PLAINS REGIONAL COTTON VARIETY TEST

Table 27.--Plains test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett 77	531 a	5.45 cdefg	36.5 cd	11.8 efg	4.40 hij
Tamcot Sp 21S	525 a	5.52 cdef	37.6 ab	11.7 efg	4.35 ij
Westburn M	519 a	5.89 bc	35.2 e	11.9 efg	4.66 fg
Stoneville 213	504 ab	5.07 gh	36.4 cd	11.9 efg	4.94 cde
Coker 5110	484 abc	5.53 cdef	36.9 bc	11.8 efg	4.67 fg
PR 68	471 abcd	5.57 bcdef	35.6 e	12.0 defg	4.68 fg
Tamcot 788	470 abcd	5.71 bcde	36.0 de	11.3 gh	4.27 j
Paymaster 303	469 abcd	5.51 cdef	37.2 abc	12.1 cdef	4.75 f
Deltapine SR-2	452 abcd	5.40 efg	34.3 f	10.6 i	4.96 cd
Paymaster 785	446 abcd	5.46 cdefg	37.9 a	12.2 cdef	5.50 b
GSA 71	446 abcd	5.49 cdefg	35.9 de	12.9 bc	5.10 c
Coker 310	438 abcd	5.44 defg	37.2 abc	11.8 efg	4.79 ef
Lankart LX 571	437 abcd	6.55 a	36.0 de	12.9 b	4.81 def
Western 44	432 abcd	5.38 efg	35.3 e	11.6 fgh	4.55 gh
Paymaster 266	432 abcd	5.20 fgh	35.4 e	12.7 bcd	4.93 de
Dunn 119	415 bcd	5.97 b	35.3 e	14.1 a	4.75 f
Stripper 31A	397 d	4.96 h	33.9 f	11.0 hi	5.75 a
Acala SJ-5	373 d	5.85 bcd	37.5 ab	12.4 bcde	4.46 hi

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Lockett 77	1.06 ef	0.49 efg	71.1 bcd	8.3 e	12.2 fg
Tamcot Sp 21S	1.09 cd	.50 cdef	73.2 a	8.3 cde	11.5 h
Westburn M	1.08 cde	.50 cdef	70.6 de	8.7 b	11.7 gh
Stoneville 213	1.10 c	.50 cde	70.3 de	8.3 cde	11.8 gh
Coker 5110	1.15 a	.54 a	71.9 b	8.3 cde	12.7 de
PR 68	1.07 def	.51 cde	71.7 bc	8.2 e	12.2 fg
Tamcot 788	1.10 c	.50 cde	70.6 de	8.5 bcde	13.3 bc
Paymaster 303	1.06 ef	.49 defg	70.9 cde	8.7 bc	11.6 h
Deltapine SR-2	1.07 ef	.51 bcde	70.9 cde	8.7 b	12.4 ef
Paymaster 785 .....	.96 h	.48 gh	69.0 f	9.4 a	11.1 i
GSA 71	1.05 f	.51 bcd	71.2 bcd	8.4 bcde	11.8 gh
Coker 310	1.14 ab	.52 ab	70.9 cde	8.5 bcde	12.9 cd
Lankart LX 571	1.08 cde	.52 bc	70.6 de	8.7 bcd	11.6 h
Western 44	1.04 g	.48 fgh	70.6 cde	8.7 b	12.0 fgh
Paymaster 266	1.04 g	.51 bc	70.0 e	8.7 bc	12.8 cde
Dunn 119	1.12 b	.54 a	70.4 de	8.2 e	13.5 b
Stripper 31A .....	.97 h	.47 h	70.8 cde	8.5 bcde	10.3 j
Acala SJ-5	1.13 ab	.53 a	72.1 h	7.9 f	14.7 a

Table 28.--Plains test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lubbock (Irr), TX ...	886 a	6.21 a	37.4 a	12.4 ab	4.99 b
Halfway, TX	571 b	5.28 c	36.2 c	11.5 d	4.15 e
Chickasha (Irr), OK .	571 b	6.26 a	37.3 ab	11.8 cd	5.16 a
Chillicothe (Irr), TX	313 c	4.91 d	36.4 c	11.9 c	4.87 c
Chillicothe (Dry), TX	281 d	4.78 d	36.9 b	12.5 a	5.23 a
Altus, OK	126 e	5.88 b	32.5 d	12.1 bc	4.38 d
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Lubbock (Irr), TX ...	1.09 b	0.51 b	74.0 a	9.4 b	12.3 ab
Halfway, TX	1.09 b	.50 c	73.3 b	9.8 a	12.5 a
Chickasha (Irr), OK .	1.05 c	.50 c	71.8 c	8.6 c	12.3 ab
Chillicothe (Irr), TX	1.03 d	.48 d	68.5 e	7.7 e	11.6 c
Chillicothe (Dry), TX	1.06 c	.50 c	67.8 f	7.4 f	12.2 b
Altus, OK	1.11 a	.54 a	70.0 d	8.0 d	12.4 ab

Table 29.--Plains test: Combined yield, boll, and spinning data for Halfway and Lubbock, Tex., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett 77	855 a	5.81	37.4	11.5	4.17
Paymaster 785	771 ab	5.84	38.9	12.2	5.30
Paymaster 303	769 ab	5.96	37.3	12.2	4.77
Tamcot 788	769 ab	6.11	36.7	11.5	4.20
Tamcot SP 21S	767 ab	6.19	38.5	12.2	4.22
PR 68	747 b	5.75	36.7	11.8	4.47
GSA 71	737 b	5.80	36.5	12.7	4.85
Coker 310	732 bc	5.35	37.6	11.1	4.50
Stripper 31A	728 bc	4.96	35.1	11.1	5.35
Westburn M	726 bc	5.65	35.6	11.6	4.32
Paymaster 266	724 bc	5.49	35.3	12.3	4.65
Coker 5110	717 bc	5.31	37.2	11.3	4.50
Deltapine SR-2	700 bc	5.74	35.2	11.3	4.57
Stoneville 213	694 bc	4.86	36.8	10.8	4.60
Lankart LX 571	691 bc	6.70	37.1	13.3	4.50
Dunn 119	680 bc	6.49	36.4	14.7	4.80
Western 44	674 c	5.52	36.5	11.4	4.42
Acala SJ-5	626 c	5.88	37.9	11.8	4.15
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Lockett 77	1.07	0.48	75.2	9.4	12.4
Paymaster 785	1.00	.49	70.7	10.3	11.8
Paymaster 303	1.06	.48	72.8	9.6	11.6
Tamcot 788	1.14	.52	72.7	9.8	13.2
Tamcot Sp 21S	1.12	.50	74.0	9.6	11.5
PR 68	1.09	.49	74.4	9.3	12.2
GSA 71	1.06	.51	73.9	9.5	12.2
Coker 310	1.17	.53	73.9	9.4	13.0
Stripper 31A .....	.99	.49	72.4	9.6	10.7
Westburn M	1.08	.49	73.3	9.8	11.6
Paymaster 266	1.06	.52	72.2	9.7	13.5
Coker 5110	1.16	.54	76.0	9.6	12.6
Deltapine SR-2	1.09	.52	73.9	9.5	12.8
Stoneville 213	1.13	.51	75.2	9.7	12.2
Lankart LX 571	1.09	.50	74.3	9.8	11.5
Dunn 119	1.15	.55	72.8	9.8	13.6
Western 44	1.06	.49	72.4	10.1	12.3
Acala SJ-5	1.15	.54	76.1	9.5	15.1

Table 30.--Plains test: Combined yield, boll, and spinning data for Chillicothe, Tex. (irrigated and dryland), and Chickasha and Altus, Okla., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Westburn M	416 a	6.01	35.0	12.1	4.83
Stoneville 213	410 ab	5.17	36.3	12.5	5.11
Tamcot Sp 21S	404 abc	5.18	37.1	11.4	4.41
Lockett 77	369 abcd	5.27	36.1	12.0	4.51
Coker 5110	368 abcd	5.64	36.7	12.0	4.76
PR 68	333 abcd	5.47	35.0	12.2	4.78
Deltapine SR-2	328 bcd	5.24	33.9	10.3	5.16
Tamcot 788	320 bcde	5.51	35.7	11.2	4.31
Paymaster 303	319 cde	5.28	37.1	12.1	4.75
Western 44	311 cde	5.31	34.6	11.7	4.61
Lankart LX 571	310 de	6.47	35.5	12.8	4.97
GSA 71	300 de	5.33	35.6	12.9	5.22
Coker 310	291 de	5.48	37.0	12.1	4.93
Paymaster 266	286 de	5.05	35.4	12.9	5.07
Paymaster 785	284 de	5.27	37.5	12.2	5.60
Dunn 119	283 e	5.71	34.7	13.8	4.73
Stripper 31A	232 e	4.97	33.3	10.9	5.95
Acala SJ-5	246 e	5.84	37.3	12.7	4.64
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Westburn M	1.09	0.51	39.2	8.2	11.8
Stoneville 213	1.09	.50	67.9	7.6	11.7
Tamcot Sp 21S	1.08	.50	72.8	7.7	11.6
Lockett 77	1.06	.50	69.1	7.7	12.1
Coker 5110	1.15	.54	69.9	7.7	12.8
PR 68	1.06	.51	70.3	7.7	12.1
Deltapine SR-2	1.06	.50	69.3	8.3	12.3
Tamcot 788	1.08	.50	69.5	7.9	13.3
Paymaster 303	1.07	.50	70.0	8.2	11.6
Western 44	1.03	.48	69.8	8.0	11.8
Lankart LX 571	1.08	.52	68.7	8.1	11.6
GSA 71	1.05	.51	69.8	7.9	11.6
Coker 310	1.13	.52	69.4	8.0	12.9
Paymaster 266	1.02	.51	68.9	8.2	12.5
Paymaster 785 .....	.94	.47	68.1	8.9	10.7
Dunn 119	1.11	.53	69.2	7.4	13.4
Stripper 31A .....	.97	.47	70.1	8.0	10.1
Acala SJ-5	1.12	.53	69.8	7.5	14.5

Table 31.--Plains test: Yield, boll, and spinning data for Lubbock, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett 77	1029 a	6.37	38.0	12.0	4.65
Tamcot 788	949 ab	6.67	36.4	12.2	4.55
Paymaster 303	938 ab	6.25	37.5	12.2	5.10
Tamcot Sp 21S	932 ab	7.12	38.3	13.5	4.60
PR 68	924 bc	6.34	37.9	12.7	5.00
Coker 310	922 bc	5.81	38.9	11.3	5.00
Coker 5110	908 bc	5.92	37.7	11.8	4.85
Paymaster 785	897 bc	6.23	39.1	12.8	5.75
GSA 71	897 bc	6.03	36.8	13.1	5.10
Lankart LX 571	889 bc	7.17	38.1	13.8	4.90
Stoneville 213	884 bcd	5.32	38.6	11.0	5.15
Stripper 31A	872 bcd	5.19	35.2	11.5	6.05
Dunn 119	867 bcd	7.17	34.9	15.7	5.10
Deltapine SR-2	841 bcde	5.84	37.0	11.6	5.05
Westburn M	840 bcde	6.20	37.9	12.1	4.95
Western 44	815 cde	5.94	37.1	11.7	4.75
Paymaster 266	778 de	5.95	36.0	12.7	4.95
Acala SJ-5	747 e	6.37	38.7	12.1	4.45
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)	
Lockett 77	1.09	0.51	74.3	9.6	12.3
Tamcot 788	1.15	.53	74.2	9.5	13.3
Paymaster 303	1.03	.47	74.9	9.4	11.6
Tamcot Sp 21S	1.12	.51	75.1	9.2	12.1
PR 68	1.09	.51	73.9	9.3	11.5
Coker 310	1.13	.51	74.0	9.5	12.8
Coker 5110	1.17	.55	76.1	9.5	12.3
Paymaster 785	1.00	.49	71.2	10.0	12.0
GSA 71	1.08	.52	74.6	9.3	12.4
Lankart LX 571	1.11	.53	75.6	9.6	11.5
Stoneville 213	1.11	.51	75.5	9.5	11.5
Stripper 31A	1.01	.50	72.4	9.5	10.7
Dunn 119	1.15	.55	74.0	9.5	13.9
Deltapine SR-2	1.09	.52	73.0	9.7	12.7
Westburn M	1.07	.48	73.1	9.6	11.2
Western 44	1.06	.49	73.7	9.9	11.9
Paymaster 266	1.07	.53	73.0	9.6	13.6
Acala SJ-5	1.15	.54	75.1	8.0	14.9

Table 32.--Plains test: Yield, boll, and spinning data for Chickasha, Okla.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	693 a	6.32	38.5	14.0	5.50
Tamcot Sp 21S	669 ab	6.04	39.7	12.0	4.65
Westburn M	631 abc	6.74	35.8	12.5	5.10
Lockett 77	630 abc	6.34	37.0	12.0	4.80
Paymaster 303	619 abcd	6.02	43.0	12.5	5.15
Coker 5110	611 abcd	6.56	38.0	10.5	4.90
PR 68	587 bcdef	6.16	36.4	11.0	5.10
GSA 71	578 cdefg	5.76	36.1	13.0	5.35
Western 44	567 cdefgh	6.12	35.4	11.5	4.75
Deltapine SR-2	558 cdefgh	5.90	35.1	10.0	5.45
Dunn 119	548 cdefgh	6.62	36.3	12.5	5.10
Tamcot 788	536 defgh	5.88	36.1	11.5	4.40
Paymaster 785	534 defgh	6.20	38.5	11.0	6.00
Coker 310	524 efgh	6.42	38.5	12.0	5.20
Lankart LX 571	523 efgh	7.54	37.0	12.0	5.50
Paymaster 266	497 fgh	6.14	36.5	12.5	5.10
Stripper 31A	489 gh	5.66	34.5	8.5	6.15
Acala SJ-5	483 h	6.28	38.8	14.0	4.85
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Stoneville 213	1.09	0.50	72.5	8.5	12.6
Tamcot Sp 21S	1.08	.51	73.9	8.4	11.1
Westburn M	1.06	.50	70.8	9.1	11.7
Lockett 77	1.05	.47	70.9	9.2	12.1
Paymaster 303	1.08	.51	71.5	8.7	12.1
Coker 5110	1.16	.56	73.8	8.2	13.8
PR 68	1.04	.48	72.3	8.4	12.5
GSA 71	1.02	.49	72.9	8.5	11.8
Western 44	1.04	.50	71.5	8.2	12.2
Deltapine SR-2	1.05	.51	71.5	9.2	12.3
Dunn 119	1.08	.53	73.0	8.6	13.2
Tamcot 788	1.08	.51	70.9	8.7	13.1
Paymaster 785 .....	.94	.47	69.2	9.4	10.7
Coker 310	1.11	.53	71.8	8.3	13.5
Lankart LX 571	1.07	.51	71.4	8.9	11.8
Paymaster 266	1.01	.50	71.8	8.7	13.4
Stripper 31A .....	.93	.46	72.8	8.6	10.2
Acala SJ-5	1.09	.53	71.0	8.1	13.7

Table 33.--Plains test: Yield, boll, and spinning data for Halfway, Tex.

Variety	Lint yield (lb. acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett 77	681 a	5.26	36.9	11.1	3.70
Paymaster 266	670 ab	5.04	34.7	12.0	4.35
Paymaster 785	644 abc	5.46	38.7	11.5	4.85
Westburn M	612 abcd	5.10	33.3	11.1	3.70
Tamcot Sp 21S	602 abcd	5.27	38.8	11.0	3.85
Paymaster 303	600 abcd	5.68	37.2	12.2	4.45
Tamcot 788	589 abcd	5.56	37.0	10.9	3.85
Stripper 31A	583 abcd	4.74	35.1	10.8	4.65
GSA 71	577 abcd	5.57	36.2	12.3	4.60
PR 68	570 abcd	5.16	35.6	11.0	3.95
Deltapine SR-2	558 bcd	5.63	33.4	11.1	4.10
Coker 310	542 cd	4.88	36.3	11.0	4.00
Western 44	532 cd	5.11	36.0	11.2	4.10
Coker 5110	526 cd	4.71	36.7	10.8	4.15
Stoneville 213	504 d	4.40	34.9	10.7	4.05
Acala SJ-5	504 d	5.39	37.1	11.5	3.85
Lankart LX 571	493 d	6.23	36.1	12.8	4.10
Dunn 119	492 d	5.81	37.9	13.8	4.50
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Lockett 77	1.06	0.46	76.2	9.2	12.4
Paymaster 266	1.06	.51	71.5	9.8	13.4
Paymaster 785	1.01	.49	70.3	10.6	11.6
Westburn M	1.09	.49	73.5	10.0	12.0
Tamcot Sp 21S	1.12	.50	73.0	10.1	11.0
Paymaster 303	1.09	.50	70.8	9.9	11.6
Tamcot 788	1.13	.50	71.3	10.1	13.0
Stripper 31A .....	.98	.47	72.5	9.7	10.7
GSA 71	1.04	.50	73.2	9.7	12.0
PR 68	1.08	.48	74.9	9.3	13.0
Deltapine SR-2	1.09	.51	74.9	9.4	12.8
Coker 310	1.22	.55	73.8	9.4	13.3
Western 44	1.05	.48	71.1	10.3	12.7
Coker 5110	1.15	.54	74.9	9.7	13.0
Stoneville 213	1.15	.52	75.0	10.0	12.8
Acala SJ-5	1.16	.55	77.2	9.0	15.4
Lankart LX 571	1.08	.48	73.1	10.1	11.6
Dunn 119	1.15	.55	71.6	10.2	13.4

Table 34.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex.
(irrigated)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	425 a	4.59	37.4	11.3	5.05
Tamcot Sp 21S	389 ab	4.47	38.8	10.7	4.35
Coker 5110	376 abc	4.85	37.6	11.6	4.85
PR 68	361 abcd	5.04	36.1	12.0	4.75
Lockett 77	347 abcd	4.44	37.2	11.5	4.55
Paymaster 303	324 bcde	4.71	36.9	11.7	4.70
Paymaster 785	321 bcde	4.46	38.0	12.0	5.55
Deltapine SR-2	321 bcde	4.59	35.0	11.2	5.25
Westburn M	320 bcde	5.26	34.0	12.0	4.60
Lankart LX 571	314 bcde	6.30	35.8	13.7	4.60
GSA 71	304 cde	5.54	36.5	13.2	5.40
Western 44	300 cde	5.22	35.3	11.5	4.70
Paymaster 266	300 cde	4.50	37.1	11.6	5.30
Dunn 119	280 de	5.04	35.4	14.0	4.45
Coker 310	258 ef	4.66	37.7	12.1	5.00
Tamcot 788	256 ef	5.07	35.5	11.6	4.15
Acala SJ-5	240 ef	5.07	37.9	12.2	4.60
Stripper 31A	192 f	4.59	34.2	12.0	5.95
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Stoneville 213	1.04	0.47	65.9	7.1	11.4
Tamcot Sp 21S	1.04	.48	72.7	7.7	11.4
Coker 5110	1.06	.47	66.7	7.2	12.2
PR 68	1.04	.49	69.7	7.2	11.7
Lockett 77	1.03	.49	67.2	7.3	11.9
Paymaster 303	1.01	.46	69.4	7.9	10.8
Paymaster 785 .....	.93	.46	69.3	8.8	10.3
Deltapine SR-2 ....	.99	.46	67.6	8.0	11.3
Westburn M	1.06	.51	68.1	7.8	11.3
Lankart LX 571	1.09	.54	66.4	7.9	11.8
GSA 71	1.02	.51	70.1	7.6	11.0
Western 44 .....	.97	.46	69.7	8.5	11.0
Paymaster 266 .....	.99	.49	68.2	8.4	11.5
Dunn 119	1.08	.51	67.0	6.9	13.3
Coker 310	1.08	.48	67.0	8.1	11.7
Tamcot 788	1.05	.48	69.5	8.0	12.6
Acala SJ-5	1.08	.50	69.0	7.4	14.9
Stripper 31A .....	.96	.47	69.3	7.8	9.2

Table 35.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (dryland)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Westburn M	417 a	5.59	36.6	12.7	5.00
Stoneville 213	409 a	4.39	38.4	11.2	5.65
Lockett 77	356 ab	4.19	36.6	11.6	4.55
Tamcot Sp 21S	352 ab	4.62	38.7	11.5	4.70
Coker 5110	338 abc	5.21	37.6	12.0	5.25
Deltapine SR-2	332 abc	4.81	34.9	12.0	5.35
PR 68	285 bcd	5.02	36.0	12.3	5.10
Lankart LX 571	283 bcd	5.52	37.1	14.1	5.40
Western 44	263 bcd	4.31	35.3	12.3	4.80
Coker 310	259 bcd	5.21	37.5	12.4	5.20
Paymaster 303	250 bcd	4.29	37.1	12.0	4.90
Tamcot 788	248 bcd	5.28	37.1	12.4	4.50
Paymaster 266	232 cd	4.10	36.5	13.8	5.35
Dunn 119	217 d	4.75	36.1	14.3	5.35
Paymaster 785	215 d	4.76	38.3	12.9	5.95
GSA 71	212 d	4.09	37.8	13.2	5.65
Stripper 31A	195 d	4.31	33.8	12.7	6.35
Acala SJ-5	192 d	5.63	38.4	12.7	5.00
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Westburn M	1.08	0.51	68.1	7.5	12.6
Stoneville 213	1.08	.49	63.8	6.6	11.3
Lockett 77	1.05	.49	66.0	6.6	12.2
Tamcot Sp 21S	1.07	.48	71.8	7.3	12.0
Coker 5110	1.16	.54	67.9	6.9	12.4
Deltapine SR-2	1.09	.52	67.9	8.0	12.5
PR 68	1.07	.51	69.4	7.3	12.0
Lankart LX 571	1.07	.51	68.0	7.8	11.1
Western 44	1.02	.47	67.8	7.7	12.2
Coker 310	1.16	.55	69.3	7.5	13.5
Paymaster 303	1.07	.50	68.6	7.5	11.8
Tamcot 788	1.07	.48	68.5	7.2	14.3
Paymaster 266	1.01	.50	66.8	7.9	12.2
Dunn 119	1.13	.55	67.1	6.9	13.5
Paymaster 785 .....	.92	.45	66.3	8.5	10.4
GSA 71	1.05	.52	67.5	7.3	11.7
Stripper 31A .....	.97	.46	68.2	7.5	10.1
Acala SJ-5	1.15	.55	67.7	6.8	15.1

Table 36.--Plains test: Yield, boll, and spinning data for Altus, Okla.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Westburn M	295 a	6.48	33.7	11.5	4.65
Tamcot 788	240 b	5.82	34.0	9.5	4.20
Tamcot Sp 21S	204 b	5.60	31.3	11.5	3.95
Coker 5110	147 c	5.96	33.8	14.0	4.05
Lockett 77	141 cd	6.14	33.8	13.0	4.15
Coker 310	122 cde	5.66	34.5	12.0	4.35
Lankart LX 571	121 cde	6.54	32.1	11.5	4.40
Paymaster 266	116 cde	5.48	31.7	14.0	4.55
Western 44	114 cdef	5.60	32.5	11.5	4.20
Stoneville 213	111 cdef	5.40	30.8	13.5	4.25
GSA 71	105 cdef	5.96	32.1	12.5	4.50
Deltapine SR-2	100 cdef	5.66	30.9	8.0	4.60
PR 68	97 cdef	5.68	31.7	13.5	4.20
Dunn 119	85 cdef	6.46	31.2	14.5	4.05
Paymaster 303	84 def	6.10	31.6	12.5	4.25
Acala SJ-5	69 ef	6.40	34.0	12.0	4.25
Paymaster 785	66 ef	5.68	35.1	13.0	4.90
Stripper 31A	53 f	5.32	31.0	10.5	5.34
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
Westburn M	1.11	0.51	70.1	8.5	11.6
Tamcot 788	1.13	.54	69.2	7.8	13.3
Tamcot Sp 21S	1.13	.54	72.8	7.3	11.8
Coker 5110	1.21	.58	71.4	8.3	12.8
Lockett 77	1.11	.54	72.2	7.8	12.4
Coker 310	1.19	.53	69.5	8.2	12.9
Lankart LX 571	1.09	.54	69.3	7.8	11.7
Paymaster 266	1.09	.55	69.0	7.6	13.1
Western 44	1.07	.51	70.2	7.8	12.1
Stoneville 213	1.14	.54	69.6	8.1	11.4
GSA 71	1.10	.55	68.9	8.2	12.0
Deltapine SR-2	1.11	.54	70.3	7.9	13.0
PR 68	1.11	.57	69.9	7.8	12.4
Dunn 119	1.16	.55	69.7	7.5	13.6
Paymaster 303	1.12	.53	70.5	8.7	11.8
Acala SJ-5	1.17	.56	70.6	7.5	14.7
Paymaster 785 .....	.99	.52	67.8	9.0	11.5
Stripper 31A	1.01	.49	70.1	8.1	10.9

WESTERN REGIONAL COTTON VARIETY TEST

Table 37.--Western test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1269 a	5.43 e	38.7 a	10.6 d	4.83 a
Stoneville 213	1219 ab	5.25 e	36.4 e	10.8 d	4.82 a
Coker 310	1124 abc	5.85 cd	37.0 d	11.3 c	4.58 b
Deltapine 61	1124 abc	5.40 e	37.6 c	10.5 d	4.92 a
Acala 1517-77	1088 abc	5.91 c	33.9 g	12.5 a	4.45 b
Tamcot Sp 21S	1081 bc	5.71 cd	39.0 a	11.2 c	4.56 b
Acala 1517-75	1046 c	5.66 d	35.6 f	12.4 a	4.27 c
Paymaster 303	998 c	6.27 b	36.3 e	12.1 b	4.58 b
Acala SJ-5	990 c	6.61 a	38.1 b	12.1 b	4.55 b
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 220	1.10 e	0.53 b	74.6 e	9.2 a	11.8 cd
Stoneville 213	1.14 d	.53 b	73.5 h	8.8 ab	11.1 e
Coker 310	1.18 c	.55 b	73.7 g	9.2 a	12.0 c
Deltapine 61	1.16 d	.54 b	75.9 a	9.1 ab	11.4 cde
Acala 1517-77	1.21 b	.60 a	74.0 f	8.6 ab	14.9 a
Tamcot Sp 21	1.10 e	.51 c	75.8 b	8.6 ab	11.6 cde
Acala 1517-75	1.24 a	.59 a	75.7 c	8.2 ab	14.9 a
Paymaster 303	1.09 e	.51 c	73.4 i	7.8 b	11.3 de
Acala SJ-5	1.20 bc	.59 a	75.0 d	8.5 ab	14.2 b

Table 38.--Western test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Phoenix, AZ	1407 a	5.68 b	35.7 b	11.7 b	4.92 a
Las Cruces, NM	1310 b	6.73 a	37.3 a	12.0 a	4.27 d
Yuma, AZ	940 c	5.31 c	37.3 a	11.1 c	4.78 b
El Paso, TX	763 d	5.43 c	37.5 a	11.2 c	4.48 c
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Phoenix, AZ	1.14 c	0.54 b	76.8 a	9.3 b	12.8 ab
Las Cruces, NM	1.22 a	.59 a	73.8 c	7.2 d	12.2 c
Yuma, AZ	1.11 d	.52 c	76.6 b	10.0 a	12.4 bc
El Paso, TX	1.16 b	.55 b	71.1 d	8.1 c	12.9 a

Table 39.--Western test: Combined yield, boll, and spinning data for Yuma and Phoenix, Ariz., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1468 a	5.16	37.7	10.1	5.25
McNair 220	1394 a	5.17	37.9	10.6	5.07
Stoneville 213	1350 ab	4.95	36.0	10.5	5.17
Coker 310	1218 bc	5.81	36.7	11.5	5.00
Tamcot Sp 21	1089 c	5.38	38.5	11.0	4.67
Paymaster 303	1086 c	6.15	36.2	12.1	4.87
Acala SJ-5	1061 c	6.11	37.9	12.1	4.62
Acala 1517-75	1060 c	5.26	34.7	12.4	4.42
Acala 1517-77	1059 c	5.50	33.0	12.4	4.60
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Deltapine 61	1.12	0.52	77.2	9.8	11.3
McNair 220	1.08	.52	76.4	10.4	11.6
Stoneville 213	1.11	.52	76.4	10.0	11.2
Coker 310	1.14	.53	74.9	10.4	11.9
Tamcot Sp 21	1.08	.50	78.4	9.7	11.5
Paymaster 303	1.04	.48	76.5	7.8	11.2
Acala SJ-5	1.17	.57	76.3	9.8	14.5
Acala 1517-75	1.20	.56	77.8	9.1	15.6
Acala 1517-77	1.19	.59	76.5	9.9	14.8

Table 40.--Western test: Combined yield, boll, and spinning data for El Paso, Tex., and Las Cruces, N. Mex., by cotton variety

Variety	Lint yield (lb/acre)	Boll Size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1244 a	5.70	39.6	10.6	4.60
Acala 1517-77	1116 ab	6.31	34.7	12.6	4.30
Stoneville 213	1088 ab	5.55	36.8	11.1	4.47
Tamcot Sp 21	1073 ab	6.05	39.5	11.5	4.45
Acala 1517-75	1033 ab	6.06	36.5	12.5	4.12
Coker 310	1031 b	5.89	37.4	11.2	4.17
Acala SJ-5	931 b	7.11	38.4	12.2	4.47
Paymaster 303	910 b	6.39	36.4	12.1	4.36
Deltapine 61	902 b	5.65	37.5	11.0	4.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
McNair 220	1.13	0.54	72.8	8.0	12.1
Acala 1517-77	1.24	.61	71.5	7.3	15.0
Stoneville 213	1.17	.55	70.6	7.6	11.0
Tamcot Sp 21	1.12	.52	73.1	7.4	11.7
Acala 1517-75	1.29	.62	73.7	7.3	14.2
Coker 310	1.23	.56	72.6	8.1	12.1
Acala SJ-5	1.23	.61	73.6	7.3	14.0
Paymaster 303	1.14	.54	70.9	7.9	11.4
Deltapine 61	1.20	.57	74.2	8.1	11.5

Table 41.--Western test: Yield, boll, and spinning data for Las Cruces, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1643 a	6.25	38.0	11.1	4.15
Acala 1517-77	1456 b	6.88	35.3	12.7	4.30
Coker 310	1442 b	6.52	37.9	11.5	4.20
Tamcot Sp 21	1379 bc	6.68	39.2	12.0	4.50
Acala 1517-75	1378 bc	6.72	36.9	12.7	4.15
Paymaster 303	1205 cd	7.10	36.7	12.7	4.25
Stoneville 213	1194 cd	6.21	36.6	11.9	4.25
Deltapine 61	1059 d	6.38	37.3	11.6	4.35
Acala SJ-5	1030 d	7.81	38.1	12.5	4.35
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 220	1.18	.56	74.2	7.3	12.0
Acala 1517-77	1.24	.61	72.4	6.8	14.4
Coker 310	1.25	.60	74.3	7.8	11.8
Tamcot Sp 21	1.15	.55	72.9	6.9	11.7
Acala 1517-75	1.32	.65	75.9	7.1	14.3
Paymaster 303	1.17	.56	72.2	7.5	11.0
Stoneville 213	1.19	.57	72.7	7.0	10.3
Deltapine 61	1.23	.59	74.8	7.8	11.1
Acala SJ-5	1.26	.62	75.2	7.2	13.2

Table 42.--Western test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1618 a	5.32	36.9	10.5	5.15
Stoneville 213	1609 a	5.07	35.4	10.7	5.35
McNair 220	1519 ab	5.40	36.8	11.0	5.20
Tamcot Sp 21	1360 bc	5.40	37.2	10.9	4.65
Coker 310	1356 bc	5.85	35.5	11.7	5.05
Acala 1517-75	1336 bc	5.65	34.5	13.1	4.65
Acala 1517-77	1313 c	5.90	32.6	12.7	4.75
Paymaster 303	1280 c	6.27	35.5	12.7	4.85
Acala SJ-5	1272 c	6.32	37.1	12.3	4.70
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Deltapine 61	1.17	0.55	77.3	9.8	11.6
Stoneville 213	1.13	.54	76.6	9.9	11.2
McNair 220	1.09	.52	77.0	10.3	11.7
Tamcot Sp 21	1.08	.50	77.9	9.7	11.7
Coker 310	1.15	.55	75.5	10.1	12.5
Acala 1517-75	1.21	.57	77.5	9.1	16.0
Acala 1517-77	1.21	.61	76.5	9.6	14.8
Paymaster 303	1.05	.48	75.9	5.3	11.6
Acala SJ-5	1.18	.58	77.0	9.8	14.3

Table 43.--Western test: Yield, boll, and spinning data for Yuma, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1090 a	4.83	36.7	10.4	5.00
Coker 310	1079 a	5.78	37.9	11.3	4.95
Deltapine 61	1076 a	5.00	38.6	9.6	5.35
McNair 220	1068 a	4.94	39.0	10.2	4.95
Paymaster 303	891 ab	6.03	36.9	11.5	4.90
Acala SJ-5	849 b	5.90	38.7	12.0	4.55
Tamcot Sp 21	818 b	5.37	39.8	11.2	4.70
Acala 1517-77	805 b	5.11	33.5	12.1	4.45
Acala 1517-75	783 b	4.87	34.9	11.7	4.20
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)	
Stoneville 213	1.10	0.50	76.3	10.1	11.2
Coker 310	1.14	.52	74.3	10.7	11.3
Deltapine 61	1.08	.50	77.1	9.8	11.0
McNair 220	1.08	.52	75.8	10.5	11.5
Paymaster 303	1.02	.48	77.2	10.2	10.8
Acala SJ-5	1.16	.56	75.6	9.7	14.8
Tamcot Sp 21	1.07	.49	79.0	9.8	11.4
Acala 1517-77	1.17	.56	76.5	10.3	14.8
Acala 1517-75	1.20	.55	78.1	9.2	15.3

Table 44.--Western test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	981 a	4.90	37.0	10.3	4.70
McNair 220	845 ab	5.16	41.2	10.1	5.05
Acala SJ-5	832 ab	6.42	38.7	11.9	4.60
Acala 1517-77	776 ab	5.75	34.2	12.6	4.30
Tamcot Sp 21	766 ab	5.41	39.8	11.0	4.40
Deltapine 61	744 b	4.91	37.7	10.5	4.80
Acala 1517-75	687 b	5.40	36.1	12.4	4.10
Coker 310	619 b	5.25	36.8	10.9	4.15
Paymaster 303	614 b	5.69	36.1	11.6	4.43
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Stoneville 213	1.15	0.53	68.6	8.3	11.8
McNair 220	1.07	.53	71.5	8.7	12.2
Acala SJ-5	1.21	.59	72.1	7.5	14.8
Acala 1517-77	1.24	.61	70.6	7.7	15.7
Tamcot Sp 21	1.10	.49	73.4	8.0	11.7
Deltapine 61	1.15	.55	73.0	8.8	12.2
Acala 1517-75	1.25	.60	71.6	7.6	14.1
Coker 310	1.20	.53	70.8	8.4	12.4
Paymaster 303	1.13	.52	70.1	8.2	11.6

SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 45.--San Joaquin test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-2	877 a	6.67 a	35.5 ab	12.8 a	4.13 a
Stoneville 213	842 ab	4.97 c	33.9 b	10.5 c	4.06 ab
Acala SJ-5	839 ab	6.48 a	36.3 a	11.9 ab	4.13 a
Paymaster 303	747 ab	5.91 ab	35.1 ab	11.4 bc	4.01 b
Coker 310	701 b	5.35 bc	36.0 a	10.5 c	3.88 b
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Acala SJ-2	1.20 a	0.55 a	74.3 a	8.4 bc	13.9 b
Stoneville 213	1.15 b	.51 b	75.1 a	8.7 a	11.6 d
Acala SJ-5	1.19 a	.54 a	75.2 a	8.4 c	14.6 a
Paymaster 303	1.10 c	.48 c	74.9 a	8.6 ab	11.4 d
Coker 310	1.19 a	.52 b	74.6 a	8.3 c	12.6 c

Table 46.--San Joaquin test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
West Side Field					
Station, CA	1056 a	5.80 a	36.0 a	10.9 b	4.27 a
Maricopa, CA	1024 a	5.92 a	36.4 a	11.1 b	4.36 a
Madera, CA	324 b	5.91 a	33.7 b	12.2 a	3.51 b
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
West Side Field					
Station, CA	1.21 a	0.55 a	77.6 a	9.2 a	13.4 a
Maricopa, CA	1.14 b	.50 b	76.2 b	8.8 b	12.3 c
Madera, CA	1.15 b	.51 b	70.6 c	7.5 c	12.8 b

Table 47.--San Joaquin test: Yield, boll, and spinning data for West Side Field Station (Five Points), Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-2	1204 a	6.73	36.3	13.0	4.40
Acala SJ-5	1163 a	6.49	35.7	11.6	4.30
Stoneville 213	1102 a	4.82	35.2	10.1	4.20
Paymaster 303	1002 a	5.99	36.7	10.8	4.30
Coker 310	811 a	4.98	36.3	9.2	4.15
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Acala SJ-2	1.24	0.59	76.9	9.1	14.5
Acala SJ-5	1.23	.57	77.9	9.0	15.1
Stoneville 213	1.19	.55	77.3	9.5	12.2
Paymaster 303	1.15	.51	78.1	9.5	12.1
Coker 310	1.23	.55	78.1	9.0	13.2

Table 48.--San Joaquin test: Yield, boll, and spinning data for Maricopa, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1104 a	5.14	34.6	10.9	4.50
Acala SJ-2	1079 a	7.08	36.9	12.6	4.45
Acala SJ-5	1046 b	6.47	38.1	11.6	4.35
Coker 310	1021 b	5.57	37.4	10.4	4.10
Paymaster 303	869 c	5.36	35.0	10.2	4.40
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Stoneville 213	1.14	0.51	77.0	9.2	11.0
Acala SJ-2	1.18	.53	74.4	8.6	13.3
Acala SJ-5	1.17	.53	76.8	8.5	14.3
Coker 310	1.16	.50	75.9	8.6	12.3
Paymaster 303	1.06	.45	77.0	8.9	10.7

Table 49.--San Joaquin test: Yield, boll, and spinning data for Madera, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 303	369 a	6.40	33.6	13.4	3.35
Acala SJ-2	348 ab	6.20	33.4	12.8	3.55
Stoneville 213	320 bc	4.96	32.0	10.7	3.50
Acala SJ-5	310 c	6.47	35.3	12.5	3.75
Coker 310	272 d	5.52	34.5	12.0	3.40
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Paymaster 303	1.10	0.48	69.6	7.5	11.5
Acala SJ-2	1.19	.54	71.6	7.6	13.9
Stoneville 213	1.12	.47	71.1	7.5	11.6
Acala SJ-5	1.18	.54	71.0	7.6	14.5
Coker 310	1.19	.51	70.0	7.5	12.4

HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 50.--High-quality test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 4601	978 a	5.37 bcd	39.1 cd	11.6 cde	4.63 f
McNair 3150	967 a	5.10 de	39.0 de	11.5 def	4.86 bc
McNair 3151	963 a	5.67 ab	36.3 h	11.8 bcd	4.96 b
PD 4548	943 ab	4.99 e	40.6 a	11.6 cde	4.83' cd
Coker 6118	935 ab	4.99 e	38.2 f	11.8 bc	5.28 a
Stoneville 213	935 ab	5.44 abcd	38.4 f	11.2 fg	5.25 a
Mo. 63-277-1B	905 ab	5.37 bcd	38.6 ef	11.4 ef	4.69 ef
Deltapine 264	896 ab	5.28 cde	34.3 i	12.0 b	4.56 f
Coker 310	894 ab	5.36 bcd	38.6 ef	11.2 fg	4.71 def
Stoneville 1395 ...	880 abc	5.21 cde	39.6 bc	11.8 bc	5.20 a
PD 4585	866 abc	5.39 cde	34.3 i	12.0 b	4.56 f
Stoneville 1434 ...	840 abcd	5.26 cde	36.3 h	11.8 bc	4.80 cde
McNair 3034	810 bcd	5.67 ab	39.8 b	11.2 fg	4.80 cde
Mo. 63-277J	740 cd	5.74 a	37.2 g	12.5 a	4.42 g
PD 695	687 d	4.98 e	37.3 g	11.0 g	4.84 c
Acala SJ-5	493 e	5.53 abc	38.1 f	11.9 bc	4.07 h
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
					Yarn tenacity (cN/tex)
Coker 4601	1.18 a	0.53 def	73.1 c	8.4 ef	12.7 b
McNair 1350	1.12 de	.51 g	73.5 abc	8.2 fg	11.6 cd
McNair 3151	1.13 cd	.53 fg	72.5 c	8.1 fg	11.8 cd
PD 4548	1.18 a	.56 ab	72.9 c	8.4 def	13.8 a
Coker 6118	1.16 a	.54 cdef	71.4 d	8.7 abc	12.0 bc
Stoneville 213	1.11 de	.52 fg	72.7 c	8.6 bcd	11.4 d
Mo. 63-277-1B	1.16 a	.55 abc	72.4 c	8.5 cdef	13.0 b
Deltapine 264	1.18 a	.52 fg	74.1 a	8.0 g	13.1 b
Coker 310	1.18 a	.54 abcdef	72.4 c	8.5 cdef	12.7 b
Stoneville 1395 ...	1.16 a	.56 a	72.5 c	8.3 f	13.7 a
PD 4585	1.16 a	.55 abcde	73.0 c	8.6 cde	13.3 ab
Stoneville 1434 ...	1.11 e	.54 bcdef	72.8 c	8.2 fg	14.0 a
McNair 3034	1.14 bc	.52 fg	73.9 ab	8.8 a	11.9 cd
Mo. 63-277J	1.17 a	.55 abcd	72.4 c	8.8 ab	13.1 b
PD 695	1.15 ab	.53 ef	73.7 abc	8.3 f	13.0 b
Acala SJ-5	1.14 abc	.54 bcdef	73.3 bc	8.3 f	14.4 a

Table 51.-- High-quality test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Florence, SC	1299 a	6.37 a	39.2 c	11.0 e	4.78 c
St. Joseph, LA	1275 a	6.20 ab	39.7 b	12.0 c	5.15 a
Jackson, TN	930 b	5.87 cd	38.2 d	11.3 de	4.97 b
Portageville, MO ..	853 c	5.99 bc	38.1 d	13.0 a	5.09 a
College Station, TX	831 c	5.51 e	36.1 g	11.3 d	4.55 d
Belle Mina, AL	791 d	6.33 a	39.0 c	11.1 e	4.55 d
Stoneville, MS	789 d	5.71 de	36.7 f	12.1 c	4.76 c
Rohwer, AR	782 d	5.25 ef	37.3 e	12.8 b	4.96 b
Rocky Mt., NC	681 e	6.12 abc	40.9 a	10.1 f	4.80 c
Tifton, GA	340 f	5.18 f	36.4 fg	----	4.37 e

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Florence, SC	1.15 d	0.53 c	76.9 a	9.3 a	12.8 de
St. Joseph, LA	1.18 b	.57 a	74.6 c	8.6 c	13.8 a
Jackson, TN	1.14 de	.55 b	74.7 bc	9.2 a	13.6 ab
Portageville, MO ..	1.13 de	.51 d	69.4 f	8.6 cd	11.7 f
College Station, TX	1.16 c	.52 d	63.6 g	6.9 f	13.1 cd
Belle Mina, AL	1.14 de	.54 c	75.2 b	8.4 cd	12.1 f
Stoneville, MS	1.20 a	.56 b	74.3 cd	7.4 e	12.9 de
Rohwer, AR	1.17 c	.56 b	71.5 e	8.5 cd	12.6 e
Rocky Mt., NC	1.10 f	.50 e	74.0 d	8.8 b	12.6 e
Tifton, GA	1.13 e	.52 d	74.9 bc	8.4 d	13.3 bc

Table 52.--High-quality test: Combined yield, boll, and spinning data for College Station, Tex.; Stoneville, Miss.; St. Joseph, La.; Jackson, Tenn.; Portageville, Mo.; and Rohwer, Ark., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3151	1041 a	6.06	36.4	11.9	5.07
McNair 3150	1025 ab	5.48	38.5	11.9	4.95
Stoneville 213	1012 abc	5.53	37.8	11.6	5.28
Coker 4601	989 abc	5.93	38.7	12.2	4.75
Coker 6118	973 abc	5.40	37.9	12.3	5.39
Deltapine 264	964 abc	5.72	33.7	12.4	4.68
Mo. 63-277-1B	953 abc	5.67	38.2	11.9	4.81
Stoneville 1395 ...	940 abc	5.74	38.7	12.2	5.16
PD 4548	935 abc	5.39	39.6	12.2	4.92
Coker 310	917 abc	5.89	38.0	11.6	4.77
Stoneville 1434 ...	896 abc	5.66	35.9	12.1	4.76
Mo. 63-277J	894 abc	6.05	36.9	12.9	4.51
PD 4585	888 bc	5.88	38.7	12.4	5.01
McNair 3034	856 c	6.05	39.3	11.6	4.89
PD 695	645 d	6.38	36.7	11.7	5.00
Acala SJ-5	644 d	6.23	37.8	12.5	4.65
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
McNair 3151	1.13	0.54	70.8	7.9	11.5
McNair 3150	1.12	.51	71.8	8.0	11.6
Stoneville 213	1.12	.52	71.5	8.4	11.5
Coker 4601	1.18	.54	71.6	8.2	12.7
Coker 6118	1.17	.55	70.1	8.4	12.0
Deltapine 264	1.19	.53	72.8	7.7	13.4
Mo. 63-277-1B	1.16	.56	70.6	8.4	13.0
Stoneville 1395 ...	1.19	.58	71.1	8.0	13.9
PD 4548	1.20	.56	71.5	8.3	14.0
Coker 310	1.19	.55	70.6	8.2	13.0
Stoneville 1434 ...	1.14	.55	71.4	7.9	14.3
Mo. 63-277J	1.17	.55	70.9	8.5	12.9
PD 4585	1.18	.56	71.3	8.4	13.4
McNair 3034	1.16	.53	72.6	8.7	12.0
PD 695	1.18	.55	72.2	8.3	13.1
Acala SJ-5	1.17	.56	71.3	7.9	14.9

Table 53.--High-quality test: Combined yield, boll, and spinning data for Tifton, Ga.; Florence, S.C.; Rocky Mount, N.C.; and Belle Mina, Ala., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
PD 4548	955 a	5.66	42.1	10.4	4.67
Coker 4601	935 ab	5.86	39.7	10.3	4.43
McNair 3150	879 abc	5.82	39.7	10.6	4.71
Coker 6118	877 abc	5.61	38.6	10.9	5.11
Coker 310	859 bcd	5.91	39.4	10.4	4.62
McNair 3151	846 bcde	6.50	36.2	11.4	4.78
Mo. 63-277-1B	833 bcde	6.28	39.2	10.4	4.50
PD 4585	833 bcde	6.02	40.0	10.7	4.73
Stoneville 213	820 bcde	5.97	39.3	10.4	5.21
Deltapine 264	793 cde	5.94	35.3	11.3	4.38
Stoneville 1395 ...	790 cde	5.73	40.8	10.9	5.27
Stoneville 1434 ...	756 de	5.98	36.8	11.3	4.86
PD 695	751 de	5.64	38.3	9.8	4.60
McNair 3034	742 e	6.53	40.6	10.5	4.67
Mo. 63-277J	508 f	6.71	37.6	11.9	4.28
Acala SJ-5	268 g	5.86	38.6	10.6	3.18

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
PD 4548	1.15	0.54	75.4	8.7	13.4
Coker 4601	1.16	.53	75.4	8.7	12.8
McNair 3150	1.11	.50	76.1	8.4	11.7
Coker 6118	1.14	.52	73.4	9.1	11.9
Coker 310	1.16	.53	75.1	8.8	12.2
McNair 3151	1.13	.53	75.0	8.4	12.2
Mo. 63-277-1B	1.14	.55	75.0	8.8	13.0
PD 4585	1.13	.53	75.5	8.8	13.1
Stoneville 213	1.10	.52	74.6	8.9	11.4
Deltapine 264	1.17	.52	76.0	8.4	12.5
Stoneville 1395 ...	1.10	.52	74.9	8.9	13.4
Stoneville 1434 ...	1.07	.52	75.0	8.6	13.6
PD 695	1.12	.50	76.0	8.4	12.8
McNair 3034	1.10	.50	76.0	9.1	11.8
Mo. 63-277J	1.16	.55	74.6	9.3	13.5
Acala SJ-5	1.11	.50	76.1	8.8	13.7

Table 54.--High-quality test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 4601	1535 a	6.10	41.0	10.5	4.55
PD 4548	1498 ab	5.95	42.0	10.6	4.80
Coker 310	1452 abc	6.21	40.0	10.4	4.75
Coker 6118	1437 abc	5.72	39.0	11.3	5.40
Stoneville 1395 ...	1436 abc	6.42	41.0	11.3	5.50
Mo. 63-277-1B	1425 abc	6.61	39.6	11.0	4.50
McNair 3034	1396 abcd	6.64	40.5	10.7	4.65
McNair 3150	1393 abcd	6.58	40.6	10.9	4.65
Stoneville 213	1386 abcd	6.27	39.3	10.9	5.20
McNair 3151	1340 bcde	6.99	37.0	11.7	5.05
PD 4585	1337 bcde	6.56	39.6	11.2	4.70
Stoneville 1434 ...	1295 cde	6.09	37.1	11.5	5.00
PD 695	1240 de	6.12	38.4	10.1	4.65
Deltapine 264	1206 e	6.19	36.5	11.5	4.65
Mo. 63-277J	956 f	7.06	36.9	12.3	4.25
Acala SJ-5	448 g	6.52	39.1	11.1	4.20
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Coker 4601	1.18	0.56	76.4	9.1	12.4
PD 4548	1.17	.56	75.9	9.1	13.4
Coker 310	1.16	.53	75.9	9.3	13.1
Coker 6118	1.15	.54	75.2	10.0	11.4
Stoneville 1395 ...	1.14	.54	76.0	9.4	13.0
Mo. 63-277-1B	1.16	.54	76.4	9.3	12.6
McNair 3034	1.14	.52	77.9	9.5	12.5
McNair 3150	1.13	.52	79.0	8.9	12.5
Stoneville 213	1.11	.53	76.6	9.5	11.2
McNair 3151	1.14	.55	76.7	9.2	12.4
PD 4585	1.16	.55	76.9	9.1	14.3
Stoneville 1434 ...	1.10	.52	78.1	8.9	13.2
PD 695	1.15	.51	78.5	8.6	14.0
Deltapine 264	1.16	.52	77.6	9.3	12.2
Mo. 63-277J	1.20	.57	76.5	9.9	13.4
Acala SJ-5	1.12	.54	76.9	9.2	13.8

Table 55.--High-quality test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
PD 4548	1400 a	5.52	42.9	12.7	5.20
Coker 4601	1397 a	6.78	40.9	12.0	4.90
Coker 6118	1395 a	5.65	39.4	12.6	5.50
Coker 310	1372 a	6.71	39.8	11.7	5.00
McNair 3151	1359 a	6.82	37.5	11.5	5.15
PD 4585	1352 a	5.50	41.1	12.0	5.35
McNair 3150	1338 a	5.79	39.1	11.5	4.90
Stoneville 213	1324 a	5.86	40.5	11.7	5.60
McNair 3034	1319 a	5.60	42.2	11.4	5.20
Stoneville 1434 ...	1318 a	6.82	37.9	12.0	5.30
Stoneville 1395 ...	1277 a	6.69	40.6	12.4	5.50
Deltapine 264	1260 a	6.44	34.7	12.4	5.00
Mo. 63-277-1B	1219 a	6.28	39.8	11.7	5.00
PD 695	1204 ab	5.49	39.2	11.2	5.05
Mo. 63-277J	992 bc	6.54	39.4	12.6	4.75
Acala SJ-5	875 c	6.74	39.8	13.0	5.00
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)	
PD 4548	1.25	0.62	74.9	8.3	14.8
Coker 4601	1.21	.57	75.6	8.5	14.3
Coker 6118	1.17	.56	73.4	9.2	12.9
Coker 310	1.23	.58	73.5	8.6	13.4
McNair 3151	1.14	.55	74.2	8.1	12.9
PD 4585	1.19	.58	75.1	8.6	13.8
McNair 3150	1.14	.52	75.3	8.5	12.2
Stoneville 213	1.15	.56	75.4	9.0	11.7
McNair 3034	1.20	.57	76.3	9.0	13.3
Stoneville 1434 ...	1.17	.59	74.9	8.4	14.9
Stoneville 1395 ...	1.22	.62	73.9	8.6	14.7
Deltapine 264	1.22	.56	75.7	8.4	14.6
Mo. 63-277-1B	1.16	.58	73.4	8.6	14.0
PD 695	1.19	.58	75.2	8.8	13.0
Mo. 63-277J	1.17	.57	72.9	8.9	14.7
Acala SJ-5	1.16	.57	74.4	8.4	15.7

Table 56.--High-quality test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1134 a	6.10	37.2	13.6	5.45
Mo. 63-277-1B	1090 ab	5.95	39.6	12.6	4.95
Stoneville 1395 ...	1072 ab	5.95	39.2	13.6	5.45
McNair 3150	1049 ab	5.55	39.5	13.6	5.05
McNair 3151	1036 ab	5.75	37.0	12.8	5.25
Mo. 63-277J	1034 ab	6.20	38.6	12.8	4.65
Coker 4601	1030 ab	5.95	39.9	13.2	5.00
Deltapine 264	1010 ab	6.15	34.4	13.4	4.65
Coker 310	913 bc	6.35	39.6	12.2	4.65
Coker 6118	898 bc	5.65	39.0	13.2	5.60
Stoneville 1434 ...	803 cd	6.00	35.6	13.6	4.65
PD 4548	755 cde	5.74	39.8	12.4	5.20
PD 4585	659 def	6.50	38.6	13.2	5.30
McNair 3034	575 ef	6.70	38.9	13.0	5.25
Acala SJ-5	525 f	6.60	37.5	12.8	5.00
PD 695	71 g	4.80	35.8	13.2	5.45
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.08	0.48	69.3	8.8	11.1
Mo. 63-277-1B	1.15	.54	69.5	8.4	12.3
Stoneville 1395 ...	1.15	.54	69.9	8.2	12.6
McNair 3150	1.09	.48	71.0	8.7	10.0
McNair 3151	1.12	.51	69.3	8.4	10.3
Mo. 63-277J	1.18	.54	69.3	8.7	10.8
Coker 4601	1.17	.51	71.5	8.7	11.6
Deltapine 264	1.17	.49	70.5	8.0	12.2
Coker 310	1.16	.52	69.5	8.6	11.5
Coker 6118	1.13	.50	68.7	8.9	11.1
Stoneville 1434 ...	1.11	.54	68.6	8.2	12.9
PD 4548	1.15	.53	68.0	8.9	14.2
PD 4585	1.11	.51	68.0	9.3	12.4
McNair 3034	1.12	.49	67.7	9.0	10.4
Acala SJ-5	1.14	.53	69.0	8.6	12.2
PD 695	1.16	.51	71.9	8.5	12.8

Table 57.--High-quality test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1068 a	5.79	38.1	11.1	5.10
McNair 3151	1067 a	6.24	38.1	11.2	5.30
Mo. 63-277-1B	1065 a	5.98	38.6	11.1	4.80
Deltapine 264	1021 ab	5.83	34.8	11.2	4.60
Mo. 63-277J	995 ab	6.37	37.6	11.9	4.45
Coker 4601	992 ab	5.74	40.6	10.3	5.05
Coker 310	987 ab	6.09	39.3	10.7	5.00
Coker 6118	983 ab	5.31	38.6	11.4	5.50
PD 4548	967 ab	5.53	40.2	11.6	5.00
Stoneville 1395 ...	938 b	5.51	39.6	11.2	5.25
McNair 1350	936 b	5.31	40.2	10.5	5.10
McNair 3034	935 b	6.30	39.7	11.0	5.00
PD 4585	915 b	6.05	38.2	11.7	5.00
Acala SJ-5	815 c	6.48	37.3	11.9	4.50
Stoneville 1434 ...	815 c	5.72	35.4	11.6	4.85
PD 695	387 d	5.68	35.3	11.8	5.10
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.11	0.53	75.3	9.4	12.4
McNair 3151	1.11	.53	74.3	9.2	12.5
Mo. 63-277-1B	1.14	.58	74.6	9.5	14.5
Deltapine 264	1.16	.53	76.9	8.8	14.1
Mo. 63-277J	1.17	.56	73.8	9.7	13.3
Coker 4601	1.12	.54	73.4	9.1	13.8
Coker 310	1.15	.56	74.8	9.1	13.8
Coker 6118	1.13	.56	73.3	9.3	12.7
PD 4548	1.17	.57	75.2	9.3	15.0
Stoneville 1395 ...	1.19	.59	75.4	9.1	15.0
McNair 3150	1.07	.48	74.8	9.2	11.1
McNair 3034	1.12	.54	74.0	9.6	12.5
PD 4585	1.16	.56	74.7	9.4	13.2
Acala SJ-5	1.15	.57	76.0	8.9	16.0
Stoneville 1434 ...	1.13	.55	75.0	8.7	15.3
PD 695	1.17	.57	73.9	9.4	13.4

Table 58.--High-quality test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3150	997 a	5.54	37.9	11.2	4.85
PD 4548	942 ab	4.95	38.7	11.0	4.25
McNair 3151	922 ab	6.05	34.9	11.3	4.65
Deltapine 264	909 abc	5.50	32.2	11.8	4.50
Coker 6118	900 abc	5.42	36.2	11.0	5.10
Stoneville 213	875 abcd	5.46	36.5	10.6	5.00
PD 4585	874 abcd	5.80	36.0	11.6	4.25
Coker 4601	869 abcd	5.46	36.4	11.4	4.30
Stoneville 1434 ...	814 abcd	5.06	35.3	10.8	4.45
PD 695	811 abcd	5.20	35.7	10.2	4.55
McNair 3034	795 bcde	6.05	37.6	10.8	4.65
Stoneville 1395 ...	788 bcde	5.22	37.1	12.1	4.75
Mo. 63-277J	783 bcde	5.70	34.7	12.4	4.15
Mo. 63-277-1B	715 cde	5.38	36.5	11.5	4.50
Coker 310	686 de	5.71	35.0	11.3	4.50
Acala SJ-5	616 e	5.75	36.7	11.8	4.40
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
McNair 3150	1.14	0.49	63.0	6.5	13.2
PD 4548	1.17	.53	65.3	7.1	13.8
McNair 3151	1.11	.50	62.0	6.4	11.2
Deltapine 264	1.22	.53	65.3	5.8	12.9
Coker 6118	1.16	.54	62.1	7.1	12.2
Stoneville 213	1.10	.48	63.8	6.9	12.0
PD 4585	1.20	.55	64.7	7.2	15.1
Coker 4601	1.21	.52	62.9	7.0	12.3
Stoneville 1434 ...	1.09	.50	63.9	6.7	14.1
PD 695	1.17	.53	65.1	6.5	13.1
McNair 3034	1.16	.50	67.5	7.8	11.6
Stoneville 1395 ...	1.20	.56	61.8	7.3	13.5
Mo. 633-277J	1.18	.54	63.6	7.4	13.3
Mo. 63-277-1B	1.17	.51	61.9	7.5	12.2
Coker 310	1.18	.53	62.6	6.9	13.3
Acala SJ-5	1.18	.55	62.8	6.2	15.6

Table 59.--High-quality test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 4601	989 a	6.08	43.1	9.6	4.55
Coker 6118	902 ab	5.72	40.4	10.6	5.00
PD 4548	883 ab	5.51	44.1	9.5	4.70
McNair 3150	814 bc	6.10	41.9	10.3	5.00
PD 4585	813 bc	5.98	43.1	9.7	5.00
Deltapine 264	779 bc	5.58	39.0	10.3	4.60
Coker 310	777 bc	6.02	41.2	9.8	4.60
PD 695	768 bc	5.51	40.7	9.2	4.75
McNair 3151	747 cd	6.78	38.1	10.6	4.55
Mo. 63-277-1B	736 cd	6.56	40.8	10.0	4.85
Stoneville 213	728 cd	5.90	42.0	9.7	5.50
Stoneville 1434 ...	634 de	6.19	39.0	10.7	5.20
Stoneville 1395 ...	602 e	6.01	42.2	10.2	5.30
McNair 3034	460 f	6.79	42.1	10.0	4.80
Mo. 63-277J	134 g	7.25	38.3	11.5	4.25
Acala SJ-5	126 g	6.03	38.9	10.4	4.25
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Coker 4601	1.13	0.52	75.1	8.9	12.7
Coker 6118	1.14	.51	71.2	8.7	11.6
PD 4548	1.12	.51	74.4	8.6	14.1
McNair 3150	1.08	.48	75.2	8.5	11.7
PD 4585	1.09	.49	74.4	9.0	12.7
Deltapine 264	1.12	.48	75.0	8.7	13.1
Coker 310	1.18	.54	73.8	8.7	11.8
PD 695	1.07	.48	73.8	8.4	11.6
McNair 3151	1.11	.48	75.1	8.3	11.8
Mo. 63-277-1B	1.09	.52	74.3	9.4	13.2
Stoneville 213	1.07	.50	73.0	9.0	11.3
Stoneville 1434 ...	1.05	.52	72.4	9.1	13.5
Stoneville 1395 ...	1.08	.50	73.6	8.8	13.3
McNair 3034	1.09	.49	74.2	9.1	12.3
Mo. 63-277J	1.12	.51	72.5	9.3	14.0
Acala SJ-5	1.09	.48	76.3	8.7	13.5

Table 60.--High-quality test: Yield, boll, and spinning data for Belle Mina, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
PD 4548	961 a	6.36	41.5	11.1	4.45
Coker 6118	913 ab	5.90	39.4	10.9	5.10
McNair 3150	912 ab	5.45	39.4	10.6	4.45
McNair 3151	878 abc	6.81	35.1	12.0	4.45
Stoneville 213	866 abc	6.36	39.7	10.7	5.05
Mo. 63-277-1B	856 abc	6.36	39.4	10.4	4.20
Coker 4601	851 abc	6.36	37.6	10.9	4.30
Stoneville 1395 ...	838 bc	5.90	41.9	11.2	4.90
Coker 310	820 bcd	6.36	39.4	11.2	4.75
Stoneville 1434 ...	814 bcd	6.36	37.3	11.6	4.75
PD 4585	811 bcd	6.36	40.5	11.4	4.65
Deltapine 264	805 bcd	6.36	34.2	12.2	4.15
McNair 3034	761 cd	7.26	40.8	10.8	4.50
Mo. 63-277J	716 d	6.81	38.9	11.8	4.10
PD 695	469 e	5.90	38.4	10.0	4.70
Acala SJ-5	389 e	6.36	40.6	10.3	4.30
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
PD 4548	1.18	0.57	75.7	8.2	13.2
Coker 6118	1.14	.53	74.5	9.1	11.3
McNair 3150	1.13	.52	74.8	8.0	10.6
McNair 3151	1.18	.57	74.9	7.7	11.0
Stoneville 213	1.11	.52	75.3	8.9	11.4
Mo. 63-277-1B	1.18	.56	73.7	8.1	12.5
Coker 4601	1.19	.53	76.3	8.3	12.6
Stoneville 1395 ...	1.11	.54	75.3	8.6	13.1
Coker 310	1.18	.55	74.6	8.7	10.6
Stoneville 1434 ...	1.07	.54	75.1	8.2	13.6
PD 4585	1.12	.55	75.3	8.5	12.2
Deltapine 264	1.20	.55	75.2	7.4	12.1
McNair 3034	1.11	.49	75.7	8.8	10.8
Mo. 63-277J	1.16	.56	75.5	9.0	13.2
PD 695	1.14	.55	76.1	9.0	13.0
Acala SJ-5	1.08	.49	76.3	8.7	12.5

Table 61.--High-quality test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3150	954 a	5.54	37.9	11.8	4.95
Mo. 63-277-1B	951 a	5.26	38.2	11.7	5.00
McNair 3151	946 ab	5.82	35.0	11.9	4.85
Coker 4601	935 ab	6.35	36.8	13.0	4.60
PD 4548	863 abc	5.22	38.8	12.7	4.85
Coker 6118	854 abc	5.44	36.7	12.3	5.30
Mo. 63-277J	825 abc	6.08	36.9	12.6	4.50
PD 695	789 abc	5.62	36.8	10.8	4.75
Stoneville 1395 ...	771 abc	5.62	38.1	12.0	5.00
Deltapine 264	753 bc	5.71	31.9	13.1	4.50
Stoneville 213	751 bc	4.97	35.6	11.7	5.05
Coker 310	731 c	5.62	36.0	12.0	4.60
Stoneville 1434 ...	729 c	5.30	34.6	12.2	4.55
McNair 3034	720 c	6.08	38.8	11.0	4.35
PD 4585	687 c	6.28	39.2	12.6	5.10
Acala SJ-5	359 d	6.47	36.6	12.5	4.35
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 3150	1.17	0.53	74.6	7.5	11.5
Mo. 63-277-1B	1.18	.56	74.7	7.7	12.4
McNair 3151	1.17	.55	73.7	6.9	11.2
Coker 4601	1.22	.53	75.2	7.3	13.4
PD 4548	1.22	.57	73.9	7.6	14.1
Coker 6118	1.22	.56	72.1	7.4	10.8
Mo. 63-277J	1.17	.54	74.4	7.8	13.0
PD 695	1.17	.54	74.8	7.8	12.7
Stoneville 1395 ...	1.21	.58	73.6	6.9	13.8
Deltapine 264	1.26	.55	75.9	7.1	13.8
Stoneville 213	1.20	.56	75.3	7.5	12.0
Coker 310	1.26	.58	72.5	7.6	13.5
Stoneville 1434 ...	1.17	.57	73.2	7.3	13.9
McNair 3034	1.22	.56	77.4	7.9	12.8
PD 4585	1.23	.58	73.8	7.4	13.5
Acala SJ-5	1.22	.59	74.7	7.5	14.7

Table 62.--High-quality test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	919 a	5.05	38.9	10.8	5.50
McNair 3151	913 a	5.71	35.7	13.1	5.25
Stoneville 1434 ...	899 a	5.05	37.0	12.5	4.80
McNair 3150	875 ab	5.15	36.5	12.8	4.90
PD 4585	838 abc	5.17	39.2	13.2	5.10
Deltapine 264	833 abc	4.71	34.4	12.5	4.85
Coker 310	814 abcd	4.88	38.7	11.6	4.90
Coker 6118	807 abcd	4.93	37.7	13.2	5.35
Stoneville 1395 ...	795 abcd	5.45	38.1	12.3	5.05
McNair 3034	790 abcd	5.56	38.6	12.2	4.90
Mo. 63-277J	734 bcde	5.45	34.6	13.1	4.60
Coker 4601	713 cde	5.33	37.7	13.6	4.70
PD 4548	683 de	5.37	37.5	13.2	5.05
Mo. 63-277-1B	676 de	5.16	36.8	12.8	4.65
Acala SJ-5	671 de	5.36	39.0	15.0	4.70
PD 695	605 e	5.50	37.5	13.1	5.10
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
Stoneville 213	1.10	0.52	69.9	9.2	9.6
McNair 3151	1.14	.54	71.1	8.5	11.1
Stoneville 1434 ...	1.16	.58	72.8	8.1	14.9
McNair 3150	1.11	.54	72.2	7.9	11.4
PD 4585	1.18	.57	71.9	8.6	12.6
Deltapine 264	1.16	.54	72.6	8.2	13.0
Coker 310	1.19	.55	71.0	8.7	12.7
Coker 6118	1.19	.59	70.9	8.8	12.5
Stoneville 1395 ...	1.20	.59	72.0	8.3	14.2
McNair 3034	1.15	.55	72.6	9.0	11.5
Mo. 63-277J	1.18	.57	71.7	9.7	12.3
Coker 4601	1.19	.56	71.0	8.6	11.0
PD 4548	1.23	.57	71.7	8.7	12.6
Mo. 63-277-1B	1.19	.57	69.8	8.5	12.7
Acala SJ-5	1.16	.58	71.3	8.1	15.5
PD 695	1.21	.58	72.4	8.8	13.8

Table 63.--High-quality test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
PD 695	527 a	5.04	35.9	----	4.30
PD 4548	477 ab	4.82	40.7	----	4.80
McNair 3151	419 bc	5.42	34.9	----	5.10
McNair 3150	398 bcd	5.16	36.9	----	4.75
Coker 310	386 bcde	5.06	36.8	----	4.40
Deltapine 264	383 bcde	5.65	31.7	----	4.15
PD 4585	372 cde	5.19	36.9	----	4.60
Coker 4601	366 cde	4.93	37.3	----	4.35
McNair 3034	350 cdef	5.43	39.0	----	4.75
Mo. 63-277-1B	317 cdefg	5.62	37.0	----	4.45
Stoneville 213	298 defg	5.38	36.3	----	5.10
Stoneville 1395 ...	285 efg	4.61	38.4	----	5.50
Stoneville 1434 ...	281 efg	5.27	33.8	----	4.50
Coker 6118	257 fg	5.13	35.6	----	4.95
Mo. 63-277J	226 g	5.74	36.2	----	4.55
Acala SJ-5	107 h	4.55	35.9	----	----
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
PD 695	1.12	0.48	75.8	7.5	12.9
PD 4548	1.12	.51	76.0	9.1	12.5
McNair 3151	1.10	.51	73.4	8.3	13.7
McNair 3150	1.12	.51	75.7	8.2	12.2
Coker 310	1.13	.51	76.3	8.6	13.5
Deltapine 264	1.20	.52	76.4	8.2	12.8
PD 4585	1.14	.54	75.7	8.8	13.3
Coker 4601	1.15	.52	73.9	8.4	13.6
McNair 3034	1.08	.51	76.1	8.9	11.6
Mo. 63-277-1B	1.15	.56	75.5	8.6	13.8
Stoneville 213	1.12	.53	73.8	8.3	12.0
Stoneville 1395 ...	1.07	.49	74.5	8.7	15.2
Stoneville 1434 ...	1.07	.51	74.7	8.2	14.1
Coker 6118	1.11	.50	72.9	8.5	13.5
Mo. 63-277J	1.17	.56	73.9	8.9	13.5
Acala SJ-5	1.15	.51	75.2	8.8	15.0

PIMA REGIONAL COTTON VARIETY TEST

Table 64.--Pima test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1038 a	3.55 b	40.8 a	11.9 ef	4.67 a
P-34	1028 a	3.26 d	39.3 b	12.7 b	4.68 a
E-11	961 ab	3.45 c	35.0 f	13.5 a	4.61 a
P-37	941 ab	3.46 c	37.4 e	11.8 ef	4.69 a
Pima S-5	918 ab	3.66 a	38.1 d	12.2 d	4.45 b
E-12	905 ab	3.40 c	34.7 g	13.5 a	4.44 b
P-42	904 ab	3.42 c	38.6 c	11.8 f	4.41 b
E-9	900 b	3.59 ab	37.9 d	12.0 e	4.51 b
E-10	862 b	3.20 d	34.3 h	12.4 c	4.42 b
P-41	843 b	3.55 b	37.6 e	12.7 b	4.14 c
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-39	1.44 cd	0.72 bcd	65.2 cde	10.8 ab	17.3 e
P-34	1.42 de	.73 abc	63.9 de	11.1 a	18.3 a
E-11	1.41 e	.71 cd	63.8 e	10.6 abc	17.7 cd
P-37	1.42 de	.71 d	64.1 de	10.7 ab	18.3 a
Pima S-5	1.43 de	.71 cd	67.1 b	10.4 bc	17.5 de
E-12	1.45 bc	.72 bcd	66.6 bc	10.0 cd	18.0 b
P-42	1.46 b	.73 ab	66.5 bc	10.4 bc	17.9 bc
E-9	1.42 de	.71 d	65.6 bcd	10.4 bc	17.7 bcd
E-10	1.46 b	.73 bcd	70.8 a	9.7 d	17.8 bcd
P-41	1.49 a	.75 a	66.5 bc	10.4 abc	18.5 a

Table 65.--Pima test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Safford (Layton), AZ	1294 a	3.68 ab	38.3 ab	12.3 e	4.66 a
Marana (Clark), AZ .	1062 b	3.47 d	37.2 d	12.5 d	4.49 bc
Salome, AZ	1060 b	3.14 f	38.3 ab	11.2 f	4.37 d
Wenden, AZ	1055 b	3.38 e	36.9 e	12.6 d	4.42 cd
Safford (Sta.), AZ .	974 c	3.65 b	38.5 a	12.4 d	4.53 bc
Fabens, TX	967 c	3.73 a	38.5 a	12.8 c	4.44 cd
Phoenix, AZ	915 d	3.32 e	34.5 g	13.0 b	4.68 a
Safford (Curtis), AZ	875 e	3.56 c	37.8 c	12.2 e	4.50 bc
El Paso, TX	562 f	3.11 f	38.1 bc	12.3 e	4.59 ab
Coolidge, AZ	534 f	3.50 c	35.6 f	13.2 a	4.45 cd
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Safford (Layton), AZ	1.46 a	0.72 abc	66.4 bc	10.8 b	18.0 b
Marana (Clark), AZ .	1.45 b	.72 abc	67.3 bc	10.5 b	17.9 bc
Salome, AZ	1.38 b	.69 d	70.5 a	10.9 b	18.2 b
Wenden, AZ	1.44 b	.74 a	67.7 b	10.6 b	18.7 a
Safford (Sta.), AZ .	1.42 b	.72 abc	67.0 bc	10.9 b	18.1 b
Fabens, TX	1.46 b	.73 ab	62.7 e	9.4 c	17.4 d
Phoenix, AZ	1.45 b	.70 cd	64.7 d	12.0 a	17.3 d
Safford (Curtis), AZ	1.44 b	.71 bc	66.8 bc	10.8 b	17.9 bc
El Paso, TX	1.46 ab	.74 a	65.6 cd	10.4 b	17.7 c
Coolidge, AZ	1.45 b	.74 a	64.6 d	9.3 c	18.1 b

Table 66.--Pima test: Combined yield, boll, and spinning data for Phoenix, Coolidge, Marana, Salome, and Wenden, Ariz., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1073 a	3.49	40.0	12.0	4.68
P-34	1018 ab	3.18	38.5	12.6	4.63
P-42	1003 abc	3.34	37.7	11.8	4.42
Pima S-5	976 abcd	3.63	37.3	12.3	4.48
P-37	945 abcd	3.36	36.5	11.9	4.65
P-41	918 abcde	3.49	36.3	12.9	4.14
E-11	861 bcde	3.29	34.0	13.6	4.59
E-9	849 cde	3.49	37.3	12.0	4.52
E-12	834 de	3.25	33.8	13.6	4.36
E-10	779 e	3.10	33.6	12.3	4.38
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
P-39	1.44	0.72	66.0	10.8	17.6
P-34	1.43	.73	65.2	11.1	18.4
P-42	1.44	.73	67.7	10.3	18.1
Pima S-5	1.43	.70	68.0	10.5	17.7
P-37	1.42	.71	65.3	10.8	18.5
P-41	1.50	.75	67.7	10.5	18.5
E-11	1.41	.71	64.6	10.7	17.9
E-9	1.43	.70	65.6	10.6	17.6
E-12	1.43	.71	67.6	10.5	18.4
E-10	1.45	.71	71.9	10.9	17.8

Table 67.--Pima test: Combined yield, boll, and spinning data for El Paso and Fabens, Tex., and Safford, Ariz. (Station and Curtis and Layton farms), by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-11	1061 a	3.62	36.0	13.3	4.64
P-34	1039 a	3.34	40.2	12.8	4.73
P-39	1008 a	3.61	41.6	11.8	4.67
E-12	975 ab	3.56	35.6	13.3	4.51
E-9	958 ab	3.68	38.5	12.0	4.51
E-10	945 ab	3.31	34.9	12.5	4.46
P-37	936 ab	3.56	38.4	11.7	4.73
Pima S-5	860 bc	3.68	38.8	12.1	4.44
P-42	805 c	3.50	39.5	11.8	4.40
P-41	767 c	3.62	38.8	12.6	4.14
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
E-11	1.41	0.72	63.2	10.5	17.5
P-34	1.41	.73	62.9	11.1	18.1
P-39	1.44	.72	64.5	10.7	17.1
E-12	1.47	.73	65.7	9.5	17.6
E-9	1.42	.71	65.5	10.3	17.7
E-10	1.47	.73	69.8	8.7	17.7
P-37	1.42	.71	63.1	10.7	18.1
Pima S-5	1.43	.72	66.3	10.4	17.3
P-42	1.47	.74	65.5	10.5	17.7
P-41	1.49	.75	65.4	10.6	18.5

Table 68.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Layton farm)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1492 a	3.86	41.8	11.8	4.95
P-34	1461 ab	3.56	40.3	12.7	4.85
P-37	1392 abc	3.63	38.2	11.7	4.90
E-9	1343 bc	3.71	39.4	11.4	4.75
E-11	1304 c	3.65	35.9	13.2	4.60
E-12	1303 c	3.77	35.4	13.5	4.55
Pima S-5	1300 c	3.82	39.5	11.9	4.50
P-42	1163 d	3.68	39.3	12.2	4.65
E-10	1111 d	3.47	34.8	12.3	4.50
P-41	1100 d	3.74	38.8	13.0	4.35
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-39	1.39	0.72	65.5	10.9	17.5
P-34	1.39	.72	63.9	11.8	18.7
P-37	1.38	.71	63.5	11.7	18.9
E-9	1.37	.69	67.3	10.8	17.5
E-11	1.39	.72	64.3	11.0	17.7
E-12	1.45	.74	66.0	10.2	18.2
Pima S-5	1.42	.72	67.4	11.1	17.3
P-42	1.47	.75	67.5	11.0	18.0
E-10	1.45	.72	72.1	9.2	17.9
P-41	1.46	.75	66.7	10.9	18.9

Table 69.--Pima test: Yield, boll, and spinning data for Wenden, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1228 a	3.42	40.4	11.9	4.70
Pima S-5	1196 ab	3.74	38.4	12.2	4.50
P-42	1132 ab	3.35	38.9	11.6	4.35
P-34	1116 ab	3.20	39.0	12.5	4.50
P-41	1082 ab	3.66	36.6	13.1	4.10
E-9	1066 ab	3.59	38.0	12.1	4.55
E-10	1026 abc	3.19	34.2	12.6	4.30
P-37	979 abc	3.35	36.3	12.3	4.50
E-12	940 bc	3.11	33.8	13.7	4.30
E-11	788 c	3.23	33.8	14.0	4.45
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)	
P-39	1.44	0.76	65.4	11.1	18.2
Pima S-5	1.40	.69	68.3	10.8	18.5
P-42	1.47	.75	69.6	10.6	18.4
P-34'	1.44	.74	64.6	11.4	19.3
P-41	1.52	.78	68.2	11.0	18.8
E-9	1.47	.73	66.6	10.7	18.6
E-10	1.45	.73	73.5	9.1	18.3
P-37	1.41	.74	64.9	11.0	19.1
E-12	1.45	.74	70.2	9.5	19.5
E-11	1.41	.73	65.4	11.1	18.5

Table 70.--Pima test: Yield, boll, and spinning data for Marana, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1226 a	3.76	40.5	12.1	4.65
E-11	1139 b	3.43	35.1	13.4	4.65
P-34	1136 b	3.24	39.7	12.5	4.60
P-37	1076 bc	3.57	37.3	12.0	4.65
E-12	1075 bc	3.50	34.7	13.6	4.50
P-42	1036 cd	3.39	38.1	11.9	4.40
Pima S-5	1028 cd	3.58	37.7	12.3	4.35
E-9	1024 cd	3.51	38.3	12.1	4.55
E-10	983 d	3.26	34.0	12.7	4.50
P-41	894 e	3.47	36.8	13.0	4.10
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
P-39	1.49	0.74	66.8	10.7	17.3
E-11	1.42	.70	65.5	10.7	17.5
P-34	1.43	.75	65.9	11.4	18.7
P-37	1.48	.75	66.5	10.9	18.3
E-12	1.45	.72	67.5	9.9	17.9
P-42	1.46	.74	68.0	10.7	18.3
Pima S-5	1.45	.71	67.6	10.9	17.8
E-9	1.41	.67	66.4	10.5	17.6
E-10	1.45	.68	71.2	8.9	17.7
P-41	1.53	.73	68.1	10.6	18.7

Table 71.--Pima test: Yield, boll, and spinning data for Salome, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Pima S-5	1174 a	3.42	40.0	11.1	4.40
P-39	1129 ab	3.35	42.0	11.2	4.60
P-34	1086 ab	2.95	40.2	11.7	4.50
E-9	1074 ab	3.27	38.9	10.6	4.40
E-12	1061 ab	2.90	35.1	12.0	4.20
E-11	1044 ab	2.92	34.8	12.2	4.40
E-10	1034 ab	3.01	35.5	11.1	4.30
P-42	1006 ab	3.04	39.6	10.6	4.35
P-41	996 b	3.38	38.9	11.5	4.05
P-37	993 b	3.25	38.5	10.7	4.55
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Pima S-5	1.39	0.69	71.3	11.0	17.5
P-39	1.37	.70	69.9	11.4	17.7
P-34	1.39	.71	69.0	11.4	18.7
E-9	1.37	.67	68.7	11.3	17.7
E-12	1.37	.69	72.4	9.8	19.1
E-11	1.32	.68	68.3	11.2	18.5
E-10	1.43	.69	76.3	9.4	18.1
P-42	1.36	.67	71.5	11.0	18.1
P-41	1.43	.73	70.2	11.0	18.2
P-37	1.37	.66	67.6	11.7	18.3

Table 72.--Pima test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-42	1165 a	3.28	36.2	12.2	4.60
P-34	1136 ab	3.22	36.9	12.9	4.90
P-39	1105 ab	3.31	38.2	12.3	4.80
P-41	1093 ab	3.35	34.9	13.1	4.35
P-37	1074 b	3.25	35.0	12.5	4.85
Pima S-5	935 c	3.62	34.7	13.2	4.65
E-9	723 d	3.52	34.8	12.5	4.65
E-11	706 d	3.40	31.7	14.5	4.95
E-12	683 d	3.42	31.5	14.5	4.55
E-10	533 e	2.87	31.1	12.6	4.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-42	1.47	0.73	64.7	10.2	17.6
P-34	1.42	.72	62.9	11.1	17.8
P-39	1.46	.70	64.4	11.0	17.1
P-41	1.52	.75	66.9	10.6	18.4
P-37	1.44	.68	64.1	11.1	17.7
Pima S-5	1.42	.67	66.7	10.5	16.9
E-9	1.45	.69	62.7	10.9	16.5
E-11	1.45	.71	62.0	10.8	17.0
E-12	1.44	.70	64.8	15.0	17.4
E-10	1.47	.71	67.8	19.0	16.8

Table 73.--Pima test: Yield, boll, and spinning data for Fabens, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1147 a	3.32	40.8	12.9	4.55
E-11	1075 a	4.00	35.4	14.3	4.62
P-39	1022 ab	3.65	41.9	12.2	4.55
E-9	1021 ab	3.95	37.8	13.3	4.47
P-37	997 abc	3.65	39.5	11.4	4.70
E-10	997 abc	3.47	35.5	13.2	4.50
P-41	889 bcd	3.88	39.8	12.4	3.95
Pima S-5	853 cd	4.01	38.4	12.8	4.35
E-12	838 cd	3.64	36.1	13.3	4.47
P-42	828 d	3.80	39.9	11.9	4.22
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-34	1.44	0.75	61.6	10.1	17.6
E-11	1.44	.72	60.6	9.5	17.3
P-39	1.47	.74	63.3	10.0	16.8
E-9	1.44	.73	63.5	9.4	17.5
P-37	1.43	.70	61.8	9.7	17.7
E-10	1.48	.74	64.7	7.8	17.5
P-41	1.51	.75	62.8	9.9	18.3
Pima S-5	1.44	.71	64.2	9.6	16.9
E-12	1.47	.71	61.5	8.5	16.8
P-42	1.47	.72	62.9	9.8	17.4

Table 74.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Station)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-11	1064 a	3.64	36.8	12.9	4.75
P-34	1049 ab	3.49	40.8	12.7	4.85
E-10	1029 ab	3.40	36.1	12.1	4.45
P-39	1023 ab	3.88	41.2	12.2	4.70
E-12	992 abc	3.63	36.1	13.3	4.50
Pima S-5	951 abc	3.81	39.3	12.1	4.45
P-37	925 abc	3.66	38.2	12.2	4.60
P-42	918 bc	3.59	39.9	11.8	4.40
E-9	912 bc	3.74	39.0	11.9	4.40
P-41	876 c	3.72	38.4	13.0	4.20
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
E-11	1.39	0.71	65.5	11.1	17.9
P-34	1.40	.73	64.2	11.7	18.8
E-10	1.45	.71	73.7	9.5	17.7
P-39	1.43	.75	64.4	11.3	17.8
E-12	1.44	.72	68.7	10.6	17.7
Pima S-5	1.42	.72	67.1	11.2	18.1
P-37	1.44	.73	64.8	11.1	18.2
P-42	1.44	.74	67.5	11.1	18.1
E-9	1.39	.73	66.7	11.0	18.1
P-41	1.46	.74	67.6	10.6	18.9

Table 75.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Curtis farm)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-12	1052 a	3.61	35.2	13.4	4.40
E-11	1032 a	3.61	35.5	13.0	4.55
P-39	997 ab	3.68	41.1	12.0	4.65
E-10	973 ab	3.45	34.8	12.3	4.40
E-9	900 bc	3.64	39.3	11.5	4.55
P-34	896 bc	3.42	39.9	12.9	4.70
P-37	837 cd	3.74	37.6	11.6	4.65
P-42	743 de	3.41	38.9	11.4	4.50
Pima S-5	734 e	3.60	38.4	12.0	4.50
P-41	581 f	3.53	38.1	12.5	4.10
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
E-12	1.47	0.74	69.2	10.1	18.1
E-11	1.42	.70	64.4	11.0	17.2
P-39	1.43	.68	65.8	11.2	17.4
E-10	1.47	.72	71.9	9.3	17.6
E-9	1.42	.69	66.0	11.1	18.0
P-34	1.41	.72	64.5	11.6	18.3
P-37	1.44	.71	64.6	11.1	18.2
P-42	14.8	.76	67.2	10.5	18.1
Pima S-5	1.39	.69	67.3	10.7	17.7
P-41	1.46	.74	67.3	11.2	18.7

Table 76.--Pima test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-11	830 a	3.20	36.5	13.3	4.70
E-12	691 b	3.15	35.6	13.3	4.70
P-34	641 bc	2.95	39.6	13.0	4.90
E-10	615 bcd	2.76	33.7	12.7	4.45
E-9	576 cde	3.39	37.3	12.3	4.45
P-37	531 def	3.14	38.5	11.8	4.85
P-39	505 ef	3.01	42.2	11.1	4.65
Pima S-5	463 fg	3.20	38.6	11.9	4.50
P-41	391 g	3.25	39.2	12.1	4.30
P-42	375 g	3.02	39.7	11.7	4.45
<hr/>					
<u>Span length (inches)</u>		<u>Colorimeter</u>		<u>Yarn</u>	
2.5%		50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)
E-11	1.40	0.74	63.8	10.8	17.5
E-12	1.51	.76	67.4	9.4	18.3
P-34	1.41	.71	62.0	11.3	17.8
E-10	1.50	.75	71.8	8.8	18.0
E-9	1.47	.71	66.1	10.3	18.0
P-37	1.40	.70	62.3	10.7	18.3
P-39	1.45	.74	64.9	11.0	16.7
Pima S-5	1.46	.75	67.7	10.1	17.0
P-41	1.52	.77	65.6	11.0	18.0
P-42	1.52	.76	64.9	10.8	17.5

Table 77.--Pima test: Yield, boll, and spinning data for Coolidge, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-42	675 a	3.68	36.1	12.9	4.40
P-39	648 a	3.63	38.9	12.6	4.65
E-11	628 a	3.50	34.8	14.3	4.50
P-34	615 a	3.31	36.7	13.4	4.65
P-37	605 a	3.38	35.4	12.4	4.70
Pima S-5	549 ab	3.81	36.0	12.9	4.50
P-41	526 ab	3.59	34.6	13.9	4.10
E-12	410 bc	3.32	34.0	14.4	4.25
E-9	359 c	3.60	36.6	12.7	4.45
E-10	320 c	3.18	33.3	12.9	4.30
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacith (cN/tex)	
P-42	1.48	0.77	64.9	9.0	18.1
P-39	1.43	.74	63.3	10.0	17.7
E-11	1.43	.72	61.7	9.9	18.1
P-34	1.46	.74	63.5	10.1	17.9
P-37	1.44	.73	63.7	9.3	19.0
Pima S-5	1.48	.74	66.3	9.2	17.7
P-41	1.50	.76	65.3	9.3	18.5
E-12	1.44	.72	63.1	8.3	18.3
E-9	1.45	.75	63.7	9.7	18.0
E-10	1.45	.73	70.9	8.3	18.4

COMBED-YARN TEST

Table 78.--Combed-yarn test: Phoenix, Ariz.

Test	Variety				
	Pima S-5	P-34	P-37	P-39	P-41
Classer's designation:					
Grade	8	8	10	10	10
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.7	16.7	17.2	15.5	16.9
7.4 tex, combed	14.3	14.3	14.6	13.5	15.0
Yarn appearance index ...	110	110	110	110	105
Yarn imperfections:					
11.8 tex, combed	2	1	1	1	3
7.4 tex, combed	1	1	1	1	2
Waste, percent:					
Picker and card	15.2	16.2	15.5	15.3	15.9
Comber	13.2	13.0	14.6	13.1	13.2
	P-42	E-9	E-10	E-11	E-12
Classer's designation:					
Grade	10	10	10	10	10
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.9	16.7	16.2	16.0	16.7
7.4 tex, combed	14.3	14.3	14.3	13.9	14.3
Yarn appearance index ...	110	110	110	120	115
Yarn imperfections:					
11.8 tex, combed	2	3	3	2	2
7.4 tex, combed	2	2	2	2	2
Waste, percent:					
Picker and card	16.0	17.7	20.6	20.3	21.5
Comber	13.5	14.8	16.3	15.3	14.5

Table 79.--Combed-yarn test: Safford, Ariz.

Test	Variety				
	Pima S-5	P-34	P-37	P-39	P-41
Classer's designation:					
Grade	7	7	10	8	8
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.7	16.5	16.9	16.0	17.2
7.4 tex, combed	13.1	14.3	15.0	13.9	14.6
Yarn appearance index ...	115	120	120	120	110
Yarn imperfections:					
11.8 tex, combed	1	1	1	1	2
7.4 tex, combed	1	1	1	1	2
Waste, percent:					
Picker and card	12.2	12.1	13.0	13.2	13.8
Comber	13.0	11.7	14.1	13.1	13.2
	P-42	E-9	E-10	E-11	E-12
Classer's designation:					
Grade	10	7	10	10	8
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.9	16.7	16.5	15.7	16.5
7.4 tex, combed	14.6	14.3	14.6	13.1	13.9
Yarn appearance index	110	110	110	120	115
Yarn imperfections:					
11.8 tex, combed	3	1	1	1	1
7.4 tex, combed	2	1	1	1	2
Waste, percent:					
Picker and card	14.1	13.8	16.4	17.1	18.1
Comber	12.3	14.0	13.4	13.4	13.5

Table 80.--Combed-yarn test: Fabens, Tex.

Test	Variety				
	Pima S-5	P-34	P-37	P-39	P-41
Classer's designation:					
Grade	8	8	7	6	8
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.0	15.7	16.4	14.8	16.7
7.4 tex, combed	13.1	13.5	13.9	12.8	13.9
Yarn appearance index ...	110	120	115	115	105
Yarn imperfections:					
11.8 tex, combed	2	1	1	2	3
7.4 tex, combed	1	1	1	1	1
Waste, percent:					
Picker and card	12.0	12.8	13.3	10.3	16.0
Comber	13.2	11.1	13.3	13.2	12.8
	P-42	E-9	E-10	E-11	E-12
Classer's designation:					
Grade	8	8	10	10	9
Staple: 32's inch	46	48	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.4	16.0	15.7	15.0	15.7
7.4 tex, combed	13.9	13.9	13.1	13.1	13.5
Yarn appearance index ...	110	115	115	115	110
Yarn imperfections:					
11.8 tex, combed	2	1	1	2	2
7.4 tex, combed	2	1	1	1	2
Waste, percent:					
Picker and card	14.1	12.9	15.7	18.3	17.3
Comber	13.5	12.3	13.3	12.5	13.1

Table 81.--Combed-yarn test: El Paso, Tex.

Test	Variety				
	Pima S-5	P-34	P-37	P-39	P-41
Classer's designation:					
Grade	7	7	7	7	7
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.3	15.0	16.2	15.0	16.2
7.4 tex, combed	13.1	12.8	13.9	12.8	13.9
Yarn appearance index ...	110	110	115	110	105
Yarn imperfections:					
11.8 tex, combed	1	1	1	1	2
7.4 tex, combed	2	1	1	1	1
Waste, percent:					
Picker and card	11.7	10.2	11.5	9.9	13.4
Comber.....	13.5	13.6	14.0	12.0	14.2
	P-42	E-9	E-10	E-11	E-12
Classer's designation:					
Grade	6	6	10	10	10
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.5	15.3	15.0	15.0	15.3
7.4 tex, combed	13.1	12.8	13.1	12.0	13.1
Yarn appearance index ...	105	110	105	120	115
Yarn imperfections:					
11.8 tex, combed	1	1	2	1	1
7.4 tex, combed	2	1	1	1	1
Waste, percent:					
Picker and card	12.6	11.8	15.0	17.5	18.1
Comber	14.2	12.6	15.9	14.6	13.8

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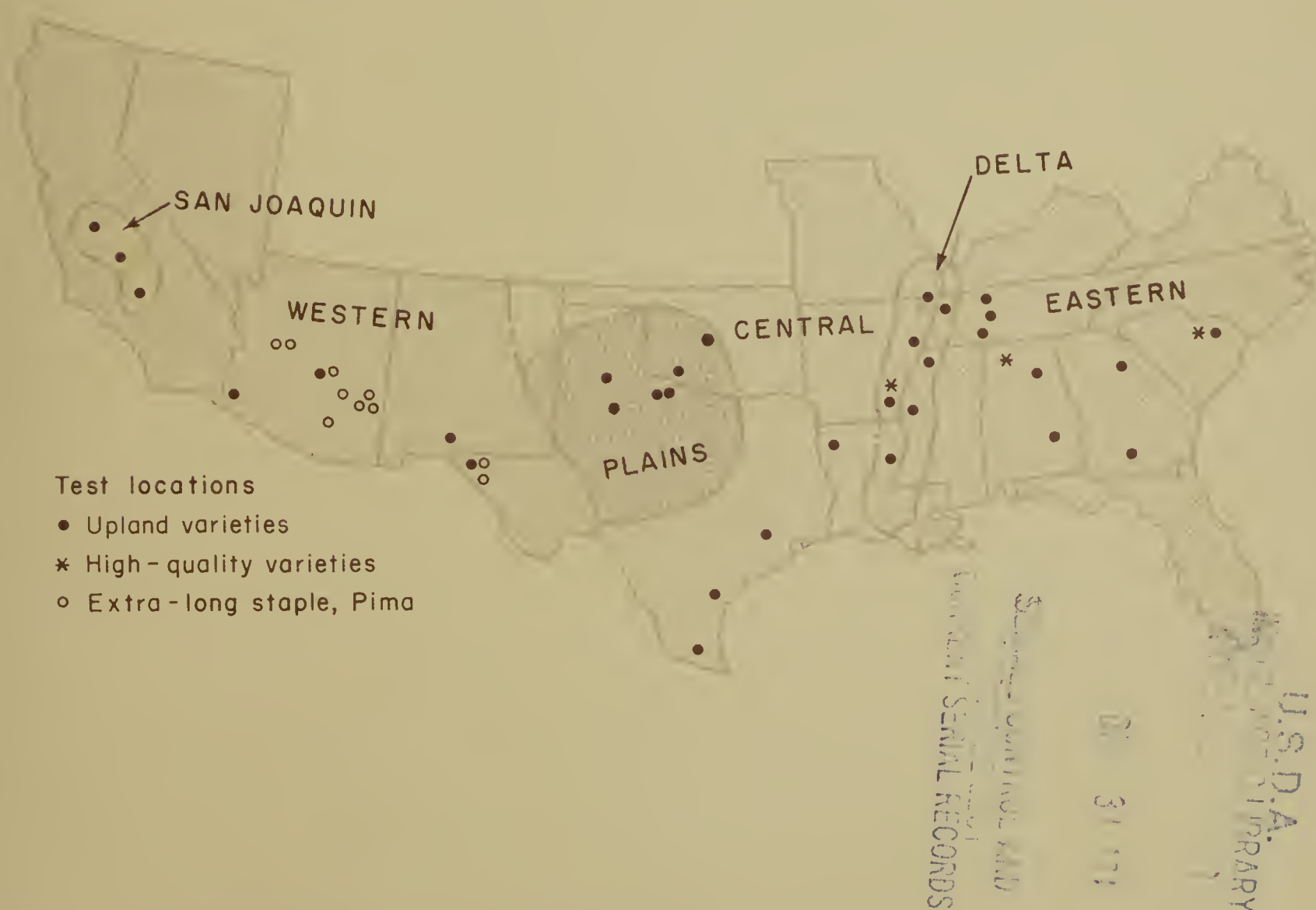
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REGIONAL COTTON VARIETY TESTS, 1978

Seed Data

Compiled by H. H. Ramey, Jr., research geneticist, and N. J. Acres, statistical assistant, Cotton Quality Laboratory, Science and Education Administration, in cooperation with the agricultural experiment stations of Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas

Science and Education Administration
U.S. Department of Agriculture

The Regional Cotton Variety Test series is available free of charge from the Cotton Quality Laboratory, Southern Regional Research Center, P.O. Box 19687, New Orleans, La. 70179. Reports for test years 1968-73 and 1975-78 are available. This report contains seed data for 1978; yield, boll, and spinning data for 1978 were published in January 1980. Fiber data are not available at this time.

ERRATA

Please make the following corrections in previous reports:

Regional Cotton Variety Tests, 1977. Yield, Boll, Seed, and Spinning Data.

P. 4, 2d col., "Oil." "AOCS Method Aa 4-48" should read "AOCS Method Aa 4-38"

P. 30, table 26. Under the heading "free gossypol," move the decimal point one place to the left. For example, "10.7" should read "1.07"

Regional Cotton Variety Tests, 1978. Yield, Boll, and Spinning Data.

P. 41. Under the heading "variety," "Tamcot Sp 21S" should read "Tamcot Sp 21"

P. 85. Add two names to the National Cotton Variety Testing Committee:
W. P. Sappenfield, University of Missouri, Delta Center, Portageville, Mo.

H. W. Webb, Coker's Pedigreed Seed Co., Hartsville, S.C.

Regional Cotton Variety Tests, 1978. Seed Data. Issued May 1981.

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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. (For the seventh 3-year cycle, beginning in 1978, the national standards were Acala SJ-5, Coker 310, Paymaster 303, and Stoneville 213.) Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of the varieties by the U.S. Department of Agriculture or the cooperating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While the details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures.

The yield, boll, and spinning data for 1978 were published in January 1980. This report contains the seed data derived from samples sent by the cooperating stations to USDA's Cotton Quality Laboratory (then located in Knoxville, Tenn.), where the seed were analyzed. (The chemical analyses--oil, nitrogen, and free gossypol--were done by a private laboratory.) All data were assembled in the Cotton Quality Laboratory, and most were analyzed at the University of Tennessee computer center.

In 1978 the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all six regions. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region.

REGIONAL TESTS AND PARTICIPATING STATIONS

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station
Sand Mountain Substation
Georgia Coastal Plain Experiment Station
Georgia College Experiment Station
Pee Dee Experiment Station
Upper Coastal Plain Experiment Station
West Tennessee Agricultural Experiment Station
Ames Plantation
Milan Field Station

Auburn, Ala.
Crossville, Ala.
Tifton, Ga.
Athens, Ga.
Florence, S.C.
Rocky Mount, N.C.
Jackson, Tenn.
Grand Junction, Tenn.
Milan, Tenn.

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:

Delta Substation

Clarkedale, Ark.

Southeast Branch Experiment Station

Rohwer, Ark.

Mississippi Agricultural and Forestry Experiment Station:

Delta Branch

Stoneville, Miss.

Off-station test

Tunica, Miss.

Missouri Agricultural Experiment Station,

Delta Center

Portageville, Mo.

Northeast Louisiana Experiment Station

St. Joseph, La.

West Tennessee Agricultural Experiment Station,

off-station test

Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station

Bossier City, La.

Texas A&M University:

Agricultural Research and Extension Center

Weslaco, Tex.

Agricultural Research Station, off-station test

Nueces County, Tex.

Texas Agricultural Experiment Station

College Station, Tex.

Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station:

Cotton Research Station (irrigated test)

Chickasha, Okla.

Irrigation Experiment Station

Altus, Okla.

Texas A&M University:

Agricultural Research and Extension Center
(Chillicothe):

Dryland test

Chillicothe, Tex.

Irrigated test

Chillicothe, Tex.

Agricultural Research and Extension Center
(Lubbock):

Irrigated test

Lubbock, Tex.

Off-station test

Halfway, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station:

Cotton Research Center

Phoenix, Ariz.

Yuma Valley Station

Yuma, Ariz.

New Mexico Agricultural Experiment Station

Las Cruces, N. Mex.

Texas A&M University Agricultural Research Center

El Paso, Tex.

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station:

West Side Field Station

Five Points, Calif.

Off-station tests:

Madera, Calif.

Maricopa, Calif.

High-Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station,
Tennessee Valley Substation
Arkansas Agricultural Experiment Station,
Southeast Branch
Pee Dee Experiment Station

Belle Mina, Ala.

Rohwer, Ark.
Florence, S.C.

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station:
Cotton Research Center
Off-station tests:

Phoenix, Ariz.
Coolidge, Ariz.
Salome, Ariz.
Wenden, Ariz.
Marana, Ariz.
Safford, Ariz.

Marana Experimental Farm, off-station test
Safford Branch Station
Off-station tests:

Safford, Ariz.
Safford, Ariz.

Curtis farm

Layton farm

Texas A&M University:

Agricultural Research Center
Off-station test, Maros farm

El Paso, Tex.
Fabens, Tex.

TEST RESULTS

No interpretation of the test results other than the indication of the significant differences among means based on an analysis of variance is presented. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's multiple-range test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs. Seed data are based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first two tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield, as previously published. For some tests, subregional summaries are also included. Following these tables, average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Acid-delinted-seed index. The mass of 100 acid-delinted seeds, in grams.

Floaters. The number of acid-delinted seeds that float in water, expressed as a percentage of the number of seeds in the sample. Seeds that float in water are considered immature, and a higher percentage indicates more immaturity.

Free gossypol. The gossypol in fuzzy seeds as determined by AOCS Method Ba 7-58; expressed as a percentage of the mass of the kernel.

Linters. The mass of linters removed in the acid-delinting process, expressed as a percentage of the mass of the fuzzy seeds.

Nitrogen. The nitrogen in fuzzy seeds as determined by AOCS Method Ba 4-38; expressed as a percentage of the mass of the fuzzy seeds. The percentage of nitrogen multiplied by 6.25 is an approximation of the percentage of protein.

Oil. The oil in fuzzy seeds as determined by AOCS Method Aa 4-38; expressed as a percentage of the mass of the fuzzy seeds.

Seed density. The mass per volume of a seed, expressed in grams per cubic centimetre; the specific gravity.

Seed grade. A visual estimate of the amount of linters on seeds. Seeds are graded from 1 to 16; 1=most dense coating, and 16=no linters (completely naked).

Seed index. The mass of 100 seeds, in grams.

Seed surface area. The surface area of a

seed in square millimetres; estimated by assuming that a seed is a cone on a hemispherical base and that the ratio of the diameter to the length is 1:1.755.

Seed volume. The volume of a seed in cubic millimetres.

EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	19.5 b	3.48 fg	0.96 e	14.2 g	6.5 b
Coker 304	19.0 c	3.61 b	.98 cde	15.5 bcde	5.8 e
Stoneville 213	17.7 fg	3.49 fg	1.02 bcd	16.2 b	5.7 e
Stoneville 825N ...	18.1 e	3.50 fg	1.03 b	16.2 b	5.8 e
Stoneville 603	17.5 gh	3.40 i	.98 cde	14.3 fg	6.3 c
Deltapine 26	17.3 h	3.48 fg	.94 ef	15.2 cdef	6.5 b
Stoneville 731N ...	17.8 ef	3.50 efg	.97 de	15.8 bcd	6.0 d
Deltapine 61	18.7 d	3.46 gh	.91 fg	14.9 defg	6.4 bc
Deltapine 55	17.9 ef	3.52 def	1.03 bc	14.4 fg	6.4 bc
Coker 315	18.1 c	3.62 b	.99 bcde	15.9 bc	5.8 e
McNair 220	18.0 c	3.55 de	.87 g	14.2 g	6.3 bc
Coker 310	19.4 bc	3.60 bc	.95 ef	15.0 defg	6.0 d
S.C.-1	20.7 a	3.62 b	1.04 b	13.2 h	6.9 a
Dixie King 3	18.5 d	3.43 hi	.98 cde	15.6 bcde	5.8 e
Coker 420	18.7 b	3.56 cd	1.16 a	18.8 a	4.8 f
Paymaster 303	19.6 b	3.52 def	.81 h	14.7 efg	5.8 e
Acala SJ-5	19.5 b	3.67 a	.74 i	13.2 h	6.1 d
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floater (percent)	Acid- delinted- seed index
McNair 235	92.1 c	107.0 c	1.016 bcd	2.7 e	9.3 def
Coker 304	90.3 cd	105.4 cd	1.042 a	3.6 de	9.4 def
Stoneville 213	94.9 c	109.0 c	.994 gh	4.7 cd	9.4 def
Stoneville 825N ...	98.4 bc	111.7 bc	.955 defg	5.7 ab	9.4 c
Stoneville 603	97.2 bc	110.8 bc	.984 hi	6.6 a	9.5 cde
Deltapine 26	94.9 c	109.7 c	.980 i	5.0 cd	9.3 def
Stoneville 731N ...	98.1 bc	111.5 bc	.997 fg	5.3 bc	9.8 c
Deltapine 61	96.7 bc	110.3 bc	1.000 efg	5.8 ab	9.6 cd
Deltapine 55	88.7 cd	104.1 cd	1.011 cde	4.6 cd	8.9 g
Coker 315	87.1 d	103.0 d	1.052 a	3.7 de	9.1 fg
McNair 220	97.5 bc	111.0 bc	1.006 defg	2.9 e	9.7 c
Coker 310	92.2 c	106.8 c	1.041 a	3.1 e	9.5 cd
S.C.-1	99.9 b	112.7 b	1.024 b	3.0 e	10.1 b
Dixie King 3	95.8 c	109.7 c	1.020 bc	2.9 e	9.7 c
Coker 420	87.8 cd	103.4 d	1.053 a	2.6 e	9.1 efg
Paymaster 303	105.7 a	117.1 a	.995 gh	5.6 ab	10.5 a
Acala SJ-5	103.0 a	115.2 a	1.010 cdef	5.8 ab	10.3 ab

Table 2.--Eastern test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Florence, S.C.	19.8 a	3.27 e	1.03 b	16.8 b	6.2 b
Crossville, Ala. ..	17.4 e	3.68 a	.98 c	14.1 d	6.1 c
Ames Plantation, Tenn.	19.0 c	3.47 c	1.00 bc	13.0 e	6.0 d
Jackson, Tenn.	19.0 c	3.64 b	1.03 ab	11.3 f	6.4 a
Milan, Tenn.	17.6 e	3.68 a	.81 d	13.7 d	6.0 d
Tifton, Ga.	19.4 b	3.32 d	1.00 bc	18.1 a	5.4 f
Rocky Mount, N.C. .	19.6 ab	3.44 c	1.06 a	15.5 c	6.2 b
Auburn, Ala.	17.9 d	3.65 ab	.79 d	16.5 b	5.6 e
Athens, Ga.	19.1 c	3.62 b	.98 c	17.0 b	6.5 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Florence, S.C.	87.3 d	103.2 d	1.061 b	2.4 b	9.2 d
Crossville, Ala. ..	101.3 ab	114.0 ab	.930 f	10.4 a	9.4 cd
Ames Plantation, Tenn.	99.2 b	112.4 b	1.012 e	3.2 b	10.0 b
Jackson, Tenn.	103.4 a	115.5 a	1.024 d	4.0 b	10.6 a
Milan, Tenn.	92.7 c	107.4 c	1.011 e	6.1 b	9.3 cd
Tifton, Ga.	92.0 c	106.8 c	1.010 e	2.2 b	9.2 d
Rocky Mount, N.C. .	76.8 e	94.6 e	1.090 a	2.4 b	8.3 e
Auburn, Ala.	101.8 a	114.3 a	.938 f	5.3 b	9.5 c
Athens, Ga.	103.2 a	115.5 a	1.043 c	3.0 b	10.7 a

Table 3.--Eastern test: Seed data for Florence, S.C.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 26	16.9	3.30	0.90	16.1	7.0
Deltapine 61	19.4	3.10	.98	16.1	7.0
Coker 315	20.2	3.33	1.03	18.5	6.0
Coker 420	20.5	3.20	1.28	21.0	5.0
S.C.-1	21.6	3.37	1.06	14.6	7.0
McNair 235	20.8	3.13	.98	16.6	6.5
Coker 304	20.4	3.31	1.07	18.0	6.0
McNair 220	20.2	3.13	1.01	15.0	6.5
Coker 310	20.6	3.26	.99	16.9	6.0
Deltapine 55	19.7	3.27	1.13	16.9	7.0
Stoneville 825N ...	19.1	3.22	1.14	17.1	6.0
Stoneville 213	18.3	3.40	1.11	17.7	6.0
Stoneville 603	20.0	3.24	1.10	16.4	6.0
Stoneville 731N ...	18.3	3.35	.99	17.0	6.0
Dixie King 3	20.0	3.13	1.06	17.4	6.5
Paymaster 303	20.3	3.34	.85	16.3	6.0
Acala SJ-5	20.1	3.50	.76	15.0	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 26	89.8	105.2	0.997	3.2	8.9
Deltapine 61	84.5	101.0	1.043	0.8	8.8
Coker 315	76.5	94.5	1.103	2.0	8.4
Coker 420	78.4	96.0	1.107	0.5	8.6
S.C.-1	94.0	108.4	1.067	1.2	10.0
McNair 235	88.2	103.9	1.045	1.2	9.2
Coker 304	76.8	94.8	1.089	2.8	8.6
McNair 220	90.4	105.6	1.043	3.0	9.4
Coker 310	84.0	100.6	1.100	1.0	9.2
Deltapine 55	78.4	96.1	1.059	3.2	8.3
Stoneville 825N ...	89.8	105.1	1.066	1.8	9.5
Stoneville 213	87.5	103.4	1.056	2.0	9.2
Stoneville 603	95.9	109.9	1.029	3.0	9.8
Stoneville 731N ...	89.8	105.2	1.059	2.2	9.5
Dixie King 3	90.5	105.8	1.074	1.0	9.7
Paymaster 303	98.7	112.1	1.041	4.2	10.2
Acala SJ-5	91.8	106.7	1.060	8.2	9.7

Table 4.--Eastern test: Seed data for Jackson, Tenn.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	20.2	3.59	1.06	10.1	7.0
McNair 220	18.9	3.68	.99	11.2	7.0
Dixie King 3	19.3	3.53	1.10	12.4	6.0
Stoneville 213	17.7	3.62	1.10	13.0	6.0
Stoneville 603	17.4	3.50	1.05	10.9	7.0
Coker 304	18.9	3.72	1.10	12.2	6.0
Stoneville 731N ...	18.3	3.61	1.06	12.0	7.0
Stoneville 825N ...	18.7	3.61	1.08	11.5	6.0
Deltapine 26	18.1	3.52	.99	9.3	7.0
Coker 310	19.7	3.71	1.00	10.7	6.0
S.C.-1	21.1	3.72	1.09	10.1	7.0
Coker 315	19.7	3.70	1.13	11.6	6.0
Deltapine 55	17.8	3.61	1.05	10.0	7.0
Deltapine 61	18.7	3.59	1.04	10.8	7.0
Acala SJ-5	19.5	3.89	.72	10.1	6.0
Coker 420	20.0	3.67	1.20	14.1	6.0
Paymaster 303	20.1	3.60	.84	11.7	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 235	97.4	111.0	1.032	2.2	10.0
McNair 220	114.6	123.6	1.010	4.8	11.5
Dixie King 3	104.2	116.1	1.033	1.8	10.7
Stoneville 213	102.0	114.5	.999	2.8	10.2
Stoneville 603	98.7	112.0	.991	5.0	9.8
Coker 304	95.9	109.9	1.057	5.5	10.1
Stoneville 731N ...	99.6	112.7	1.000	4.8	9.9
Stoneville 825N ...	106.5	117.8	1.007	2.8	10.7
Deltapine 26	104.9	116.6	.991	3.0	10.4
Coker 310	100.9	113.7	1.058	3.5	10.6
S.C.-1	109.2	119.8	1.031	2.2	11.2
Coker 315	94.5	108.8	1.070	3.8	10.1
Deltapine 55	102.2	114.3	1.009	6.2	10.3
Deltapine 61	116.7	125.1	1.001	7.0	11.6
Acala SJ-5	106.9	118.2	1.045	4.2	11.1
Coker 420	96.9	110.7	1.066	3.8	10.3
Paymaster 303	107.9	118.9	1.014	5.8	10.9

Table 5.--Eastern test: Seed data for Crossville, Ala.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	19.1	3.65	1.06	12.9	7.0
Coker 304	17.7	3.86	.98	13.2	6.0
Coker 310	17.7	3.80	1.00	13.3	6.0
Stoneville 825N ...	16.4	3.65	.94	14.8	6.0
Coker 315	17.9	3.84	1.06	14.6	6.0
Stoneville 731N ...	17.0	3.61	.99	14.4	6.0
Coker 420	18.8	3.85	1.15	17.7	6.0
Stoneville 213	16.7	3.56	1.01	15.5	6.0
Deltapine 61	16.9	3.66	.91	14.3	6.0
Stoneville 603	15.6	3.51	.91	12.7	7.0
Deltapine 26	16.2	3.57	.99	13.7	6.0
S.C.-1	19.2	3.77	1.11	13.2	7.0
Deltapine 55	16.9	3.72	1.04	13.6	6.0
Paymaster 303	18.7	3.72	.80	13.8	6.0
Dixie King 3	17.2	3.55	.97	14.7	6.0
Acala SJ-5	16.6	3.57	.92	15.5	6.0
McNair 220	18.2	3.73	.87	12.6	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 235	102.1	115.9	0.959	5.2	9.8
Coker 304	96.5	110.3	.951	10.0	9.2
Coker 310	96.9	110.9	.951	7.8	9.2
Stoneville 825N ...	99.8	112.8	.922	15.5	9.2
Coker 315	91.7	106.6	.950	9.8	8.7
Stoneville 731N ...	105.7	117.3	.929	13.8	9.8
Coker 420	91.4	106.4	.951	4.5	8.7
Stoneville 213	108.0	119.0	.918	9.5	9.9
Deltapine 61	101.5	114.1	.906	20.0	9.2
Stoneville 603	99.6	112.7	.893	17.2	8.9
Deltapine 26	106.4	117.8	.906	10.8	9.6
S.C.-1	98.7	112.1	.936	8.2	9.2
Deltapine 55	99.5	112.7	.926	7.0	9.2
Paymaster 303	111.8	121.7	.927	7.5	10.3
Dixie King 3	98.4	111.8	.949	7.8	9.3
Acala SJ-5	106.1	117.6	.904	10.8	9.5
McNair 220	107.8	118.8	.935	5.5	10.1

Table 6.--Eastern test: Seed data for Grand Junction (Ames Plantation), Tenn.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 731N ...	17.2	3.41	0.93	14.7	6.0
Stoneville 825N ...	17.8	3.54	1.01	15.0	6.0
McNair 235	19.9	3.30	1.03	12.5	6.0
Deltapine 26	17.9	3.47	1.08	17.5	6.0
Stoneville 213	18.0	3.39	1.12	13.2	6.0
Stoneville 603	17.5	3.30	.99	12.3	6.0
Coker 310	19.7	3.61	1.01	12.1	6.0
Deltapine 61	19.3	3.35	.93	12.7	6.0
Deltapine 55	17.8	3.48	1.06	9.6	6.0
Coker 315	19.4	3.59	1.06	13.8	6.0
Coker 304	19.2	3.51	.96	13.2	6.0
Coker 420	20.1	3.51	1.25	15.6	6.0
Dixie King 3	19.1	3.34	1.02	14.1	6.0
McNair 220	19.3	3.51	.88	12.7	6.0
S.C.-1	20.9	3.52	1.09	11.8	7.0
Paymaster 303	20.2	3.51	.88	11.4	6.0
Acala SJ-5	20.6	3.72	.74	9.7	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 731N ...	101.5	114.1	0.967	3.5	9.8
Stoneville 825N ...	105.8	117.3	.961	5.2	10.1
McNair 235	96.3	110.2	.994	1.8	9.5
Deltapine 26	94.2	108.5	1.021	2.2	9.6
Stoneville 213	98.9	112.2	1.007	4.0	9.9
Stoneville 603	105.0	116.7	.971	6.2	10.2
Coker 310	93.8	108.3	1.057	2.5	9.9
Deltapine 61	102.6	114.9	.986	2.8	10.1
Deltapine 55	95.4	109.5	1.000	4.8	9.5
Coker 315	92.1	106.9	1.063	3.8	9.8
Coker 304	90.9	106.0	1.053	2.8	9.5
Coker 420	90.4	105.7	1.066	1.0	9.6
Dixie King 3	100.2	113.1	1.010	2.8	10.1
McNair 220	103.0	115.2	.986	1.8	10.1
S.C.-1	103.4	115.5	.993	2.0	10.2
Paymaster 303	106.6	117.9	1.025	4.2	10.8
Acala SJ-5	107.2	118.4	1.054	2.5	11.3

Table 7.--Eastern test: Seed data for Milan, Tenn.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	17.5	3.68	0.72	14.0	6.0
Stoneville 213	16.4	3.60	.88	15.4	6.0
Dixie King 3	17.1	3.53	.77	15.1	6.0
Stoneville 603	15.8	3.49	.76	13.1	6.0
Deltapine 61	18.1	3.60	.81	11.6	6.0
Stoneville 825N ...	16.4	3.55	.92	15.1	6.0
Stoneville 731N ...	16.8	3.61	.85	13.8	6.0
Deltapine 26	16.6	3.58	.80	14.4	6.5
Coker 310	18.3	3.81	.77	13.2	6.0
Paymaster 303	19.1	3.62	.74	12.3	6.0
Deltapine 55	16.1	3.75	.87	13.9	6.0
Coker 304	18.2	3.85	.81	13.9	6.0
McNair 220	17.3	3.78	.71	14.3	6.0
Coker 315	18.1	3.79	.83	14.5	6.0
S.C.-1	19.4	3.81	.86	12.5	7.0
Coker 420	19.1	3.78	.98	17.2	5.0
Acala SJ-5	19.9	3.83	.70	9.4	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 235	90.5	105.7	0.999	6.5	9.0
Stoneville 213	88.6	104.3	.973	11.5	8.6
Dixie King 3	91.1	106.2	1.020	4.8	9.3
Stoneville 603	93.3	107.9	.974	11.2	9.1
Deltapine 61	94.5	108.8	1.006	7.8	9.5
Stoneville 825N ...	93.9	108.3	1.001	7.2	9.4
Stoneville 731N ...	96.2	110.1	.995	5.8	9.5
Deltapine 26	94.3	108.6	.984	6.8	9.2
Coker 310	89.3	104.7	1.030	6.0	9.2
Paymaster 303	103.8	115.8	1.000	6.8	10.3
Deltapine 55	81.1	98.3	.990	8.8	8.0
Coker 304	92.2	107.0	1.041	2.2	9.6
McNair 220	94.0	108.4	.998	3.2	9.3
Coker 315	86.1	102.3	1.043	3.2	9.0
S.C.-1	97.2	110.9	1.061	3.2	9.9
Coker 420	86.7	102.8	1.032	3.5	8.9
Acala SJ-5	103.9	116.0	1.028	5.0	10.7

Table 8.--Eastern test: Seed data for Tifton, Ga.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	20.2	3.35	0.88	16.6	6.0
Deltapine 61	19.3	3.35	.87	19.3	6.0
McNair 235	19.9	3.35	.94	16.1	6.0
Deltapine 55	18.7	3.34	1.07	17.6	6.0
S.C.-1	21.9	3.35	.99	15.7	7.0
Stoneville 825N ...	18.8	3.29	1.11	20.4	5.0
Stoneville 603	18.4	3.21	1.02	16.1	6.0
Stoneville 213	19.3	3.30	1.14	18.5	5.0
Coker 420	20.0	3.26	1.15	22.6	3.0
Coker 315	19.4	3.41	.96	18.9	5.0
Deltapine 26	17.5	3.27	.89	17.5	6.0
Stoneville 731N ...	19.0	3.33	1.17	18.9	5.0
Coker 304	19.7	3.36	1.02	17.9	5.0
Coker 310	20.2	3.42	1.08	18.6	5.5
Dixie King 3	19.3	3.29	1.08	17.1	5.0
Paymaster 303	20.1	3.29	.85	17.5	5.5
Acala SJ-5	19.2	3.35	.79	17.9	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 220	94.9	108.1	1.011	1.5	9.5
Deltapine 61	84.5	101.0	.995	1.5	8.3
McNair 235	92.5	107.4	1.005	2.0	9.3
Deltapine 55	81.4	98.5	1.027	0.8	8.3
S.C.-1	96.3	110.1	1.032	1.0	9.9
Stoneville 825N ...	92.6	107.4	1.031	3.0	9.5
Stoneville 603	95.4	109.5	.998	3.0	9.5
Stoneville 213	93.0	107.7	.978	2.0	9.1
Coker 420	82.3	99.2	1.054	1.5	8.6
Coker 315	84.8	101.3	1.038	2.8	8.8
Deltapine 26	91.6	106.6	.956	3.0	8.7
Stoneville 731N ...	92.7	107.4	1.026	2.2	9.5
Coker 304	87.0	102.9	1.035	2.0	8.9
Coker 310	90.4	105.6	1.042	1.0	9.3
Dixie King 3	96.3	110.2	1.033	0.2	9.9
Paymaster 303	103.6	115.7	.973	5.5	10.1
Acala SJ-5	105.6	117.2	.943	5.1	9.9

Table 9.--Eastern test: Seed data for Rocky Mount, N.C.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 304	19.9	3.44	1.00	16.0	6.0
Deltapine 55	18.9	3.31	1.15	14.7	7.0
Dixie King 3	17.9	3.47	1.03	15.4	6.0
Coker 310	19.8	3.43	.95	15.1	6.0
Coker 315	19.6	3.51	1.01	16.4	6.0
McNair 235	20.3	3.31	1.12	14.4	7.0
Stoneville 603	18.5	3.42	1.21	16.5	6.0
Deltapine 26	18.1	3.44	1.06	16.1	7.0
Coker 420	20.4	3.41	1.22	20.2	5.0
Deltapine 61	20.3	3.37	1.15	16.7	7.0
Stoneville 213	18.9	3.50	1.02	14.3	6.0
S.C.-1	22.1	3.57	1.19	12.5	7.0
Stoneville 825N ...	20.0	3.42	1.29	15.7	5.5
Stoneville 731N ...	19.1	3.48	1.21	16.3	6.0
Paymaster 303	19.7	3.32	.80	15.7	6.0
McNair 220	19.5	3.53	.99	14.6	7.0
Acala SJ-5	20.1	3.61	.70	13.9	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Coker 304	74.6	93.0	1.111	1.8	8.3
Deltapine 55	68.7	88.0	1.111	0.8	7.6
Dixie King 3	79.2	96.7	1.037	1.5	8.2
Coker 310	72.0	89.8	1.116	2.0	8.0
Coker 315	62.8	82.9	1.144	1.0	7.2
McNair 235	72.4	91.0	1.100	1.2	7.9
Stoneville 603	79.6	97.1	1.073	3.2	8.2
Deltapine 26	76.3	94.3	1.066	1.8	8.1
Coker 420	68.9	88.1	1.153	3.2	7.7
Deltapine 61	72.6	91.4	1.096	2.5	7.9
Stoneville 213	70.7	90.6	1.102	1.2	7.7
S.C.-1	77.7	95.5	1.111	1.0	8.6
Stoneville 825N ...	87.3	103.2	1.054	3.8	9.2
Stoneville 731N ...	92.5	107.2	1.042	4.5	9.6
Paymaster 303	88.9	104.5	1.039	7.5	9.2
McNair 220	76.1	94.3	1.090	1.0	8.3
Acala SJ-5	86.5	102.6	1.088	2.5	9.4

Table 10.--Eastern test: Seed data for Auburn, Ala.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	18.4	3.63	0.73	15.2	6.0
Stoneville 731N ...	16.5	3.58	.71	18.3	6.0
Stoneville 825N ...	16.9	3.58	.81	19.2	6.0
Coker 304	18.5	3.77	.86	15.0	6.0
Stoneville 603	16.3	3.44	.86	15.6	6.0
Dixie King 3	18.0	3.57	.74	17.5	5.0
Paymaster 303	18.9	3.62	.74	17.5	5.0
Stoneville 213	16.4	3.65	.83	19.1	5.0
McNair 220	18.0	3.65	.70	15.7	6.0
Coker 310	18.7	3.73	.76	16.6	6.0
Coker 315	18.4	3.70	.82	16.5	5.0
Coker 420	18.1	3.68	1.04	19.2	4.0
S.C.-1	19.4	3.79	.89	13.5	6.5
Deltapine 26	17.1	3.66	.87	15.9	6.0
Deltapine 61	17.4	3.56	.68	15.9	6.0
Deltapine 55	16.9	3.63	.84	16.1	6.0
Acala SJ-5	19.4	3.85	.66	14.3	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 235	99.4	112.5	0.942	1.5	9.3
Stoneville 731N ...	99.4	112.6	.915	9.2	9.1
Stoneville 825N ...	98.8	112.1	.911	9.0	9.0
Coker 304	97.7	111.3	.976	4.0	9.7
Stoneville 603	101.9	114.4	.899	8.0	9.2
Dixie King 3	102.4	114.8	.952	4.2	9.7
Paymaster 303	111.9	121.8	.933	3.8	10.4
Stoneville 213	102.2	114.7	.909	7.5	9.3
McNair 220	97.3	111.0	.924	3.5	9.0
Coker 310	99.2	112.4	.964	2.2	9.5
Coker 315	100.9	113.7	.979	1.0	9.8
Coker 420	101.5	114.1	.988	2.2	10.0
S.C.-1	105.5	117.1	.949	5.0	10.0
Deltapine 26	102.5	114.8	.912	7.5	9.3
Deltapine 61	106.6	117.9	.938	7.2	10.0
Deltapine 55	95.8	109.9	.929	5.5	8.9
Acala SJ-5	107.6	118.6	.931	9.2	10.0

Table 11.--Eastern test: Seed data for Athens, Ga.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Dixie King 3	19.1	3.44	1.09	17.1	6.0
McNair 235	19.9	3.67	1.05	16.1	7.0
McNair 220	19.7	3.61	.88	15.5	7.0
Deltapine 61	18.8	3.54	.87	17.0	7.0
S.C.-1	20.8	3.75	1.09	15.1	7.0
Stoneville 213	17.9	3.47	1.00	19.0	6.0
Coker 315	19.3	3.70	1.02	18.5	6.5
Stoneville 825N ...	18.9	3.61	1.02	16.8	6.5
Coker 310	19.7	3.68	.98	18.2	7.0
Coker 304	19.2	3.66	1.07	20.0	6.0
Stoneville 603	18.1	3.53	.99	14.9	7.0
Stoneville 731N ...	18.4	3.56	.88	16.8	6.5
Coker 420	19.5	3.70	1.24	21.4	5.0
Paymaster 303	19.3	3.64	.82	16.5	6.0
Deltapine 55	18.5	3.64	1.06	16.9	7.0
Deltapine 26	17.3	3.52	.93	16.3	7.0
Acala SJ-5	20.0	3.78	.70	13.3	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Dixie King 3	99.8	112.8	1.074	2.0	10.7
McNair 235	90.2	105.5	1.074	2.3	9.7
McNair 220	99.7	112.8	1.058	2.0	10.5
Deltapine 61	107.1	118.3	1.029	2.8	11.0
S.C.-1	116.9	125.4	1.039	2.8	12.1
Stoneville 213	103.4	115.6	1.008	1.6	10.4
Coker 315	94.5	110.5	1.073	1.0	10.1
Stoneville 825N ...	106.2	117.6	1.046	3.3	11.1
Coker 310	103.8	115.9	1.053	1.5	10.6
Coker 304	101.1	113.9	1.069	1.8	10.5
Stoneville 603	105.5	117.1	1.030	2.7	10.9
Stoneville 731N ...	105.7	117.2	1.044	2.1	11.0
Coker 420	93.6	108.2	1.058	3.6	9.9
Paymaster 303	117.9	126.1	1.003	5.2	11.8
Deltapine 55	95.6	109.6	1.048	4.0	10.0
Deltapine 26	103.0	115.2	.989	6.5	10.2
Acala SJ-5	111.4	121.4	1.039	5.0	11.5

DELTA REGIONAL COTTON VARIETY TEST

Table 12.--Delta test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.9 e	3.33 f	1.15 a	14.9 a	5.4 f
DES 56	18.7 b	3.48 bc	1.15 a	12.3 c	6.4 b
Deltapine 55	18.0 de	3.41 cde	1.11 a	12.7 c	6.1 c
Stoneville 731N ...	17.7 e	3.38 de	1.15 a	14.0 ab	5.8 de
Deltapine 61	18.5 bc	3.28 f	1.07 ab	13.0 bc	6.4 b
Stoneville 256	17.9 de	3.38 de	1.16 a	13.5 bc	6.0 cd
Coker 310	19.9 a	3.39 cde	1.10 a	13.4 bc	5.7 e
DES 24	18.3 cd	3.52 b	1.18 a	12.8 bc	5.9 cde
Paymaster 303	20.0 a	3.44 bcd	.95 b	13.2 bc	5.7 e
Rex 713	19.8 a	3.43 bcd	1.10 a	10.8 d	7.0 a
Acala SJ-5	19.9 a	3.74 a	.79 c	10.3 d	5.8 de
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	101.5 cd	114.2 b	1.007 def	3.5 cd	10.2 d
DES 56	100.1 cde	113.1 b	1.019 cd	2.5 de	10.2 d
Deltapine 55	91.1 f	106.2 c	1.029 bc	2.7 de	9.3 f
Stoneville 731N ...	97.7 e	111.2 bc	1.011 def	5.8 ab	9.8 e
Deltapine 61	99.6 de	112.7 b	.996 f	3.1 de	9.9 e
Stoneville 256	97.7 e	111.3 bc	1.010 def	6.6 a	9.8 e
Coker 310	102.0 cd	114.5 b	1.050 a	2.0 e	10.7 c
DES 24	103.2 c	115.4 b	1.034 bc	2.5 de	10.6 c
Paymaster 303	111.4 b	121.4 a	1.012 de	4.6 bc	11.2 b
Rex 713	118.4 a	126.4 a	1.002 ef	5.1 b	11.8 a
Acala SJ-5	112.6 b	122.3 a	1.043 ab	2.8 de	11.7 a

Table 13.--Delta test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
St. Joseph, La. ...	19.8 b	3.33 c	1.16 b	12.4 b	6.6 a
Stoneville, Miss. .	17.5 e	3.46 b	.97 c	13.6 a	6.1 b
Tunica, Miss.	17.1 f	3.82 a	.59 d	12.4 b	6.0 b
Portageville, Mo. .	19.0 c	3.49 b	1.08 b	13.8 a	6.2 b
Clarkedale, Ark. ..	20.9 a	3.16 d	1.13 b	12.2 b	5.6 c
Rohwer, Ark.	18.6 d	3.51 b	1.53 a	11.7 b	5.7 c
Ridgely, Tenn.	18.7 cd	3.28 c	1.13 b	13.4 a	5.8 c
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floater (percent)	Acid- delinted- seed index
St. Joseph, La. ...	102.0 b	114.4 b	1.043 a	2.0 c	10.6 b
Stoneville, Miss. .	106.5 a	117.8 a	.989 c	5.0 a	10.5 b
Tunica, Miss.	103.3 b	115.4 b	1.025 b	4.8 a	10.6 b
Portageville, Mo. .	106.6 a	117.8 a	1.032 ab	5.2 a	11.0 a
Clarkedale, Ark. ..	97.1 c	110.8 c	1.027 b	3.5 b	9.9 c
Rohwer, Ark.	105.8 a	117.7 a	1.032 ab	2.2 c	10.9 a
Ridgely, Tenn.	101.4 b	114.0 b	.988 c	3.5 b	10.0 c

Table 14.--Delta test: Seed data for St. Joseph, La.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55	19.3	3.24	1.21	11.5	7.0
Deltapine 61	20.0	3.04	1.21	13.2	7.0
DES 56	20.0	3.23	1.21	12.3	7.0
Stoneville 256	19.2	3.28	1.17	12.1	6.5
Stoneville 731N ...	19.0	3.34	1.18	12.4	6.5
Coker 310	20.5	3.46	1.08	15.6	6.5
Stoneville 213	18.1	3.38	1.21	13.9	6.0
DES 24	19.6	3.37	1.16	12.9	6.5
Paymaster 303	20.5	3.46	1.06	13.1	6.5
Acala SJ-5	20.8	3.54	.96	9.4	6.5
Rex 713	20.6	3.33	1.30	9.8	7.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 55	89.2	104.7	1.065	0.5	9.5
Deltapine 61	95.6	109.6	1.013	1.0	9.6
DES 56	99.9	112.9	1.037	1.0	10.3
Stoneville 256	98.5	111.9	1.035	3.5	10.2
Stoneville 731N ...	99.4	112.5	1.045	2.8	10.4
Coker 310	98.7	112.1	1.079	0.5	10.6
Stoneville 213	102.3	114.7	1.030	2.0	10.5
DES 24	100.6	113.4	1.059	0.5	10.6
Paymaster 303	111.3	120.9	1.025	3.2	11.4
Acala SJ-5	106.5	117.8	1.070	1.0	11.4
Rex 713	119.9	127.4	1.015	5.5	12.1

Table 15.--Delta test: Seed data for Portageville, Mo.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 731N ...	18.3	3.33	1.22	16.2	6.0
DES 56	19.0	3.62	1.09	12.5	7.0
Stoneville 213	18.2	3.35	1.23	15.7	5.5
Stoneville 256	18.5	3.54	1.21	13.9	6.0
Deltapine 55	18.3	3.39	1.11	13.7	6.0
Deltapine 61	18.5	3.32	1.01	13.5	7.0
Coker 310	20.2	3.38	1.20	15.4	6.0
DES 24	18.5	3.56	1.01	15.5	6.0
Paymaster 303	19.7	3.52	.96	13.9	6.0
Rex 713	19.9	3.62	1.06	11.7	7.0
Acala SJ-5	19.9	3.79	.79	10.3	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 731N ...	97.0	110.8	1.003	9.5	9.7
DES 56	104.7	116.6	1.033	2.8	10.8
Stoneville 213	101.1	113.8	1.024	5.2	10.3
Stoneville 256	101.4	114.1	1.046	8.0	10.6
Deltapine 55	88.2	104.0	1.043	5.5	9.2
Deltapine 61	106.2	117.6	1.013	4.2	10.7
Coker 310	104.5	116.4	1.059	2.8	11.0
DES 24	104.5	116.4	1.045	2.2	10.9
Paymaster 303	118.2	126.4	1.024	6.8	12.1
Rex 713	127.7	133.0	1.021	4.5	13.0
Acala SJ-5	118.8	126.8	1.041	5.8	12.3

Table 16.--Delta test: Seed data for Stoneville, Miss.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
DES 56	17.9	3.39	1.05	12.4	6.5
Deltapine 61	17.5	3.32	.86	14.3	6.0
Coker 310	18.4	3.52	.96	13.9	6.0
Stoneville 213	16.5	3.38	1.13	15.2	6.0
Stoneville 256	16.4	3.37	.95	14.1	6.0
DES 24	17.2	2.47	1.09	14.4	6.0
Deltapine 55	16.9	3.46	1.02	14.6	6.0
Stoneville 731N ...	16.3	3.53	.99	14.7	6.0
Paymaster 303	18.9	3.41	1.04	13.8	6.0
Rex 713	18.4	3.43	.90	11.2	7.0
Acala SJ-5	18.5	3.77	.71	11.0	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
DES 56	100.2	113.2	0.999	3.2	10.0
Deltapine 61	109.3	119.7	.907	5.0	9.8
Coker 310	105.2	116.9	1.030	2.5	10.8
Stoneville 213	101.7	114.2	.987	4.2	10.0
Stoneville 256	99.3	112.5	.984	9.2	9.7
DES 24	107.3	118.4	1.005	4.0	10.8
Deltapine 55	93.0	107.6	1.015	1.0	9.4
Stoneville 731N ...	98.7	112.0	.988	7.5	9.7
Paymaster 303	116.7	125.3	.986	4.5	11.5
Rex 713	122.6	129.5	.977	9.0	12.0
Acala SJ-5	117.6	125.9	1.005	4.8	11.8

Table 17.--Delta test: Seed data for Tunica, Miss.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	16.5	3.70	0.72	14.9	5.0
DES 24	16.5	3.89	.67	12.5	6.0
Deltapine 55	16.1	3.84	.63	13.0	6.0
DES 56	17.3	3.89	.58	11.9	6.0
Deltapine 61	17.2	3.69	.49	12.3	7.0
Coker 310	18.2	3.80	.62	11.3	6.0
Stoneville 731N ...	15.6	3.71	.59	13.6	6.0
Stoneville 256	16.0	3.77	.61	13.8	6.0
Rex 713	17.8	3.87	.55	10.3	7.0
Paymaster 303	18.4	3.84	.57	12.6	6.0
Acala SJ-5	19.2	4.02	.50	10.7	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	100.0	112.9	1.015	4.8	10.1
DES 24	104.1	116.0	1.041	3.2	10.8
Deltapine 55	94.2	108.6	1.020	4.8	9.6
DES 56	98.7	112.1	1.032	3.2	10.2
Deltapine 61	100.4	113.3	1.028	2.2	10.3
Coker 310	110.3	120.6	1.045	1.5	11.7
Stoneville 731N ...	95.9	109.8	1.007	10.8	9.6
Stoneville 256	95.8	109.8	1.011	9.8	9.7
Rex 713	114.3	123.5	.999	5.0	11.4
Paymaster 303	110.0	120.4	1.006	5.5	11.0
Acala SJ-5	112.5	122.2	1.069	2.2	12.0

Table 18.--Delta test: Seed data for Clarkedale, Ark.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	20.0	3.05	1.08	12.8	6.0
Deltapine 55	19.6	3.30	1.16	9.7	6.0
Stoneville 213	21.1	3.04	1.22	14.8	5.0
Coker 310	21.2	3.22	1.14	11.6	5.5
Paymaster 303	22.8	2.96	1.13	13.3	5.0
Stoneville 731N ...	20.2	3.11	1.11	13.8	5.0
Stoneville 256	20.3	3.06	1.15	12.7	6.0
DES 56	20.9	3.26	1.21	12.0	6.0
DES 24	19.9	3.37	1.14	13.1	6.0
Rex 713	22.8	2.87	1.11	11.2	7.0
Acala SJ-5	21.8	3.54	.96	9.2	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	89.8	104.9	1.010	3.0	9.0
Deltapine 55	89.0	104.5	1.041	4.2	9.2
Stoneville 213	99.3	112.5	1.025	3.2	10.2
Coker 310	95.8	109.8	1.033	3.0	9.9
Paymaster 303	102.2	114.7	1.029	3.0	10.5
Stoneville 731N ...	92.5	107.3	1.039	3.5	9.6
Stoneville 256	92.9	107.6	1.010	7.2	9.4
DES 56	95.3	109.4	1.038	1.5	9.9
DES 24	97.9	111.4	1.019	3.8	9.9
Rex 713	105.9	117.4	1.019	3.5	10.8
Acala SJ-5	107.3	118.4	1.037	2.8	11.1

Table 19.--Delta test: Seed data for Rohwer, Ark.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.5	3.29	1.47	14.3	5.5
Deltapine 55	18.2	3.37	1.51	12.3	6.0
Stoneville 731N ...	16.9	3.51	1.81	12.2	5.5
DES 56	18.5	3.61	1.79	11.6	6.5
Coker 310	20.8	3.18	1.59	11.5	5.0
Stoneville 256	17.3	3.42	1.76	12.7	6.0
DES 24	18.3	3.61	1.93	11.0	5.0
Rex 713	19.0	3.73	1.51	8.9	7.0
Deltapine 61	18.4	3.34	1.55	11.7	6.0
Paymaster 303	19.9	3.63	1.04	11.4	6.0
Acala SJ-5	19.5	3.93	.86	11.2	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	108.6	119.4	0.999	2.8	10.8
Deltapine 55	95.1	109.3	1.028	1.5	9.7
Stoneville 731N ...	104.6	116.5	1.019	1.5	10.6
DES 56	101.8	114.4	1.034	1.5	10.5
Coker 310	101.8	114.3	1.084	2.0	11.0
Stoneville 256	98.4	111.8	1.004	5.1	9.8
DES 24	105.0	116.7	1.061	1.8	11.1
Rex 713	124.9	131.0	1.000	3.8	12.6
Deltapine 61	100.9	113.7	1.011	1.2	10.2
Paymaster 303	111.1	121.2	1.040	2.5	11.5
Acala SJ-5	111.7	121.6	1.069	1.0	11.9

Table 20.--Delta test: Seed data for Ridgely, Tenn.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 256	18.0	3.23	1.26	14.8	6.0
Stoneville 213	17.4	3.21	1.08	15.7	5.0
Stoneville 731N ...	17.8	3.12	1.17	14.8	6.0
Coker 310	20.2	3.21	1.12	14.4	5.5
DES 56	17.7	3.36	1.14	13.3	6.0
Deltapine 61	18.2	3.24	1.29	13.2	6.0
DES 24	18.4	3.36	1.29	10.0	6.0
Deltapine 55	17.6	3.27	1.19	14.3	6.0
Rex 713	20.4	3.19	1.26	12.5	7.0
Paymaster 303	20.1	3.30	.90	14.3	5.0
Acala SJ-5	20.1	3.61	.78	10.7	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 256	97.9	111.4	0.978	3.8	9.5
Stoneville 213	97.7	111.3	.974	2.0	9.5
Stoneville 731N ...	95.9	109.9	.977	5.2	9.3
Coker 310	97.9	111.4	1.021	1.8	10.0
DES 56	100.2	113.2	.960	4.5	9.6
Deltapine 61	95.5	109.6	.989	4.8	9.4
DES 24	102.9	115.2	1.006	2.0	10.3
Deltapine 55	89.2	104.8	.991	1.5	8.8
Rex 713	113.4	122.9	.983	4.2	11.1
Paymaster 303	110.6	120.8	.978	6.5	10.8
Acala SJ-5	114.2	123.5	1.012	2.5	11.5

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Table 21.--Central test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	17.8 b	3.56 b	0.91 cd	14.6 bcd	6.9 a
Stoneville 256	16.8 cd	3.50 bc	1.03 b	15.7 abcd	5.5 d
Deltapine 55	17.2 c	3.41 c	1.17 a	12.7 d	6.4 b
Stoneville 731N ...	16.6 cd	3.50 bc	1.01 b	17.4 ab	5.6 cd
Deltapine 16	18.6 a	3.38 c	.96 bc	14.9 abcd	6.1 bc
Stoneville 213	16.4 d	3.44 bc	1.02 b	18.1 a	5.5 d
Coker 310	17.9 b	3.57 b	.87 cd	16.1 abc	5.9 bcd
Paymaster 303	18.4 ab	3.49 bc	.85 de	14.8 abcd	6.0 bcd
Acala SJ-5	18.1 ab	3.75 a	.76 e	14.0 cd	5.8 cd
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 220	89.8 bc	105.1 bc	1.004 b	2.7 cd	9.0 bcd
Stoneville 256	88.1 bcd	103.8 bcd	1.005 b	3.6 c	8.8 cde
Deltapine 55	82.5 d	99.3 d	1.023 b	1.8 d	8.4 d
Stoneville 731N ...	86.4 cd	102.2 cd	1.012 b	2.6 cd	8.7 cde
Deltapine 16	89.6 bc	104.4 bc	1.028 b	1.5 d	9.2 abc
Stoneville 213	84.1 cd	100.5 cd	1.026 b	2.9 cd	8.6 de
Coker 310	85.6 cd	101.8 cd	1.058 a	2.2 d	9.0 bcd
Paymaster 303	96.0 a	109.8 a	1.011 b	6.7 b	9.7 a
Acala SJ-5	93.0 ab	107.5 ab	1.017 b	8.6 a	9.5 ab

Table 22.--Central test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
College Station, Tex.	17.3 bc	3.57 b	1.04 a	17.4 a	5.9 b
Nueces County, Tex.	18.0 a	3.04 c	.94 bc	17.8 a	5.5 c
Weslaco, Tex.	17.1 c	3.50 b	.88 c	16.9 a	5.2 c
Bossier City, La. .	17.6 ab	3.92 a	.94 b	9.2 b	7.1 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
College Station, Tex.	88.9 b	104.4 b	1.014 b	3.7 b	9.0 b
Nueces County, Tex.	77.8 c	95.4 c	1.046 a	2.1 d	8.1 c
Weslaco, Tex.	92.5 a	107.0 ab	.998 c	5.9 a	9.2 b
Bossier City, La. .	94.0 a	108.3 a	1.022 b	2.8 c	9.6 a

Table 23.--Central test: Seed data for College Station, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55	17.1	3.39	1.35	17.2	6.5
McNair 220	17.8	3.55	1.00	17.2	7.0
Stoneville 731N ...	16.3	3.61	1.01	19.0	5.5
Stoneville 256	16.5	3.57	1.20	18.9	5.0
Coker 310	18.1	3.47	.98	16.6	6.0
Stoneville 213	16.3	3.60	1.14	17.5	5.5
Paymaster 303	18.0	3.59	.94	17.3	6.0
Deltapine 16	17.5	3.44	1.00	17.6	6.0
Acala SJ-5	18.1	3.93	.73	15.6	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 55	87.0	102.9	1.017	3.8	8.8
McNair 220	91.8	106.8	.992	2.5	9.1
Stoneville 731N ...	83.7	100.3	1.014	4.5	8.5
Stoneville 256	88.0	103.7	1.016	4.0	8.9
Coker 310	85.5	101.8	1.040	4.0	8.9
Stoneville 213	87.9	103.7	1.003	5.5	8.8
Paymaster 303	97.7	111.2	1.009	4.0	9.8
Deltapine 16	89.5	105.0	1.015	3.0	9.1
Acala SJ-5	88.8	104.3	1.020	2.2	9.0

Table 24.--Central test: Seed data for Nueces County, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 256	17.5	3.09	1.02	16.8	5.0
McNair 220	18.6	2.92	.89	17.6	6.5
Deltapine 16	19.4	2.87	1.02	16.9	6.0
Coker 310	17.5	3.00	.77	18.7	5.5
Stoneville 731N ...	17.1	3.07	1.06	23.5	5.0
Paymaster 303	18.7	2.97	.94	15.4	5.5
Deltapine 55	17.8	3.03	1.11	12.9	6.0
Stoneville 213	17.0	3.05	.98	22.7	5.0
Acala SJ-5	18.2	3.38	.67	16.1	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 256	83.1	99.9	1.015	2.4	8.4
McNair 220	77.8	95.5	1.022	1.3	7.9
Deltapine 16	83.8	100.5	1.044	0.6	8.7
Coker 310	74.5	92.9	1.079	0.8	8.0
Stoneville 731N ...	69.1	88.2	1.055	0.0	7.3
Paymaster 303	84.2	100.7	1.027	6.7	8.6
Deltapine 55	78.0	95.5	1.027	0.0	8.0
Stoneville 213	67.1	86.6	1.102	2.0	7.3
Acala SJ-5	82.7	99.5	1.040	4.8	8.6

Table 25.--Central test: Seed data for Weslaco, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	17.2	3.57	0.84	16.7	6.0
Deltapine 55	16.3	3.50	.97	12.2	5.5
Stoneville 731N ...	16.6	3.49	1.04	17.4	5.0
Stoneville 256	16.2	3.50	.91	18.7	5.0
Stoneville 213	15.9	3.37	.96	19.7	4.5
Coker 310	18.2	3.66	.89	17.8	5.0
Deltapine 16	18.4	3.46	.84	17.5	5.5
Paymaster 303	18.3	3.45	.75	15.7	5.5
Acala SJ-5	17.0	3.65	.73	16.2	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 220	96.7	110.5	0.981	3.0	9.5
Deltapine 55	84.3	100.9	1.018	2.5	8.6
Stoneville 731N ...	90.9	106.0	.996	3.0	9.0
Stoneville 256	87.6	103.4	.989	5.2	8.6
Stoneville 213	91.7	106.6	.998	3.8	9.1
Coker 310	90.8	106.0	1.048	2.0	9.5
Deltapine 16	90.2	103.0	1.021	1.5	9.2
Paymaster 303	105.3	117.0	.994	6.0	10.4
Acala SJ-5	95.5	109.6	.941	25.8	8.9

Table 26.--Central test: Seed data for Bossier City, La.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55	17.4	3.71	1.24	8.2	7.5
Stoneville 256	16.9	3.82	.98	8.4	7.0
Stoneville 213	16.5	3.75	1.00	12.1	7.0
Deltapine 16	18.8	3.74	.97	7.5	7.0
Stoneville 731N ...	16.3	3.79	.92	9.6	7.0
McNair 220	17.7	4.21	.89	7.0	8.0
Paymaster 303	18.6	3.93	.76	10.6	7.0
Acala SJ-5	19.1	4.16	.92	8.1	7.0
Coker 310	17.6	4.14	.85	11.0	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 55	80.7	97.9	1.029	1.0	8.3
Stoneville 256	93.8	108.1	.998	2.8	9.3
Stoneville 213	89.6	105.0	.998	0.5	8.9
Deltapine 16	94.9	109.2	1.032	1.0	9.8
Stoneville 731N ...	101.7	114.3	.982	2.8	9.9
McNair 220	92.8	107.5	1.021	4.0	9.4
Paymaster 303	96.6	110.3	1.013	10.0	9.7
Acala SJ-5	104.7	116.5	1.067	1.5	11.1
Coker 310	91.5	106.4	1.064	2.0	9.7

PLAINS REGIONAL COTTON VARIETY TEST

Table 27.--Plains test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 77	18.5 fg	3.49 fghi	0.70 fgh	13.7 cde	6.1 fgh
Tamcot Sp 21S	18.9 ef	3.66 ab	.70 fgh	11.6 hij	7.0 d
Westburn M	19.5 abcde	3.69 a	.83 cd	11.0 jk	7.5 b
Stoneville 213	17.2 i	3.41 ij	.97 a	17.2 a	5.4 j
Coker 5110	18.9 ef	3.47 ghi	.92 ab	14.4 bcd	6.0 gh
PR 68	19.2 cdef	3.61 abcde	.74 efg	13.1 def	6.8 de
Tamcot 788	19.9 ab	3.59 bcde	.72 efg	13.2 defg	6.8 de
Paymaster 303	19.4 bcde	3.52 efgh	.79 cde	14.2 bcd	6.2 fg
Deltapine SR-2	19.7 abcd	3.64 abcd	.74 efg	9.9 k	7.9 a
Paymaster 785	19.1 def	3.54 defg	.70 fgh	12.0 ghij	6.7 e
GSA 71	19.6 abcd	3.55 cdefg	.86 bc	12.1 fghij	7.7 a
Coker 310	18.9 ef	3.61 abcde	.83 cd	14.8 bc	6.0 h
Lankart LX 571	17.9 h	3.59 abcde	.65 h	12.6 efgh	7.2 c
Western 44	19.8 abc	3.65 ab	.75 def	11.1 ij	7.2 c
Paymaster 266	19.1 cdef	3.37 j	.77 def	13.6 cde	6.2 fg
Dunn 119	18.0 gh	3.45 hij	.71 fgh	15.1 b	5.7 i
Stripper 31A	20.2 a	3.57 bcdef	.94 a	12.3 fghi	7.3 bc
Acala SJ-5	19.9 ab	3.64 abc	.67 h	11.9 hij	6.3 f
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Lockett 77	98.2 defg	111.6 def	1.026 bc	6.2 abc	10.1 cd
Tamcot Sp 21S	101.0 cde	113.8 cde	1.011 c	6.6 abc	10.1 cd
Westburn M	101.7 cde	114.2 cde	1.032 abc	4.0 c	10.5 c
Stoneville 213	89.7 h	105.0 h	1.006 c	6.9 abc	9.0 e
Coker 5110	94.5 fgh	108.7 fgh	1.035 abc	6.2 abc	9.8 d
PR 68	99.7 cdef	112.6 cdef	1.018 bc	6.0 abc	10.1 cd
Tamcot 788	96.2 efg	110.1 efg	1.046 ab	4.7 bc	10.0 cd
Paymaster 303	101.2 cde	113.9 cde	1.013 c	5.7 abc	10.2 cd
Deltapine SR-2	99.5 cdef	112.7 cdef	1.016 bc	6.6 abc	10.1 cd
Paymaster 785	104.2 c	116.1 c	1.009 c	6.2 abc	10.5 c
GSA 71	111.9 b	121.7 b	1.005 c	5.9 abc	11.1 b
Coker 310	93.2 gh	107.7 gh	1.047 ab	4.5 c	9.7 d
Lankart LX 571	119.6 a	127.3 a	.970 d	7.9 a	11.6 a
Western 44	99.9 cde	112.7 cdef	1.060 a	4.3 c	10.5 c
Paymaster 266	101.5 cde	114.1 cde	1.022 bc	5.9 abc	10.3 c
Dunn 119	119.9 a	127.9 a	.972 d	7.8 ab	11.7 a
Stripper 31A	101.6 cde	114.2 cde	1.030 abc	4.2 c	10.4 c
Acala SJ-5	102.9 cd	115.1 cd	1.025 bc	5.8 abc	10.5 c

Table 28.--Plains test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lubbock (Irr), Tex.	20.5 a	3.34 e	0.86 a	12.5 b	6.4 d
Halfway, Tex.	18.7 c	3.75 b	.83 a	10.7 c	6.8 b
Chickasha (Irr), Okla.	18.9 bc	3.81 a	.69 c	13.4 a	7.1 a
Chillicothe (Irr), Tex.	18.6 c	3.47 d	.69 c	13.9 a	6.5 d
Chillicothe (Dry), Tex.	18.6 c	3.65 c	.74 b	13.6 a	6.7 c
Altus, Okla.	19.2 b	3.32 e	.84 a	13.8 a	6.5 d
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Lubbock (Irr), Tex.	107.2 a	118.2 a	1.014 b	2.3 d	10.8 a
Halfway, Tex.	101.8 b	114.5 b	1.016 b	4.0 c	10.3 b
Chickasha (Irr), Okla.	99.3 b	112.4 b	1.035 a	6.3 b	10.2 bc
Chillicothe (Irr), Tex.	95.3 c	109.1 c	1.034 a	3.2 cd	9.8 d
Chillicothe (Dry), Tex.	106.4 a	117.7 a	1.035 a	3.2 cd	11.0 a
Altus, Okla.	102.1 b	114.4 b	.979 c	16.0 a	10.0 cd

Table 29.--Plains test: Combined seed data for Halfway and Lubbock, Tex.,
by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 77	18.7	3.47	0.78	12.7	6.0
Paymaster 785	20.1	3.52	.77	11.1	6.5
Paymaster 303	20.3	3.51	.88	12.8	6.5
Tamcot 788	19.4	3.57	.76	11.5	6.8
Tamcot Sp 21S	20.1	3.71	.78	11.5	6.8
PR 68	19.4	3.60	.79	12.3	6.5
GSA 71	20.3	3.59	.95	9.7	8.5
Coker 310	19.4	3.65	.83	13.6	6.0
Stripper 31A	20.6	3.57	1.07	10.6	7.5
Westburn M	19.9	3.68	.92	9.6	7.5
Paymaster 266	19.9	3.25	.86	12.5	6.0
Coker 5110	19.4	3.48	.98	13.2	6.3
Deltapine SR-2	19.8	3.63	.77	8.3	8.0
Stoneville 213	17.1	3.45	1.13	16.6	5.0
Lankart LX 571	18.3	3.59	.73	11.0	7.5
Dunn 119	19.0	3.44	.77	13.9	5.3
Western 44	20.6	3.59	.85	9.2	7.3
Acala SJ-5	20.4	3.69	.72	10.2	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Lockett 77	97.9	111.4	1.027	2.4	10.1
Paymaster 785	106.6	117.8	1.018	2.5	10.9
Paymaster 303	105.2	116.9	1.009	2.5	10.6
Tamcot 788	99.0	112.3	1.049	2.1	10.4
Tamcot Sp 21S	109.0	120.1	1.013	4.5	11.0
PR 68	105.7	117.3	1.002	2.8	10.6
GSA 71	119.4	127.2	.982	4.1	11.7
Coker 310	92.7	107.4	1.044	0.9	9.7
Stripper 31A	110.0	113.7	.992	4.6	10.0
Westburn M	104.4	116.3	1.018	3.0	10.6
Paymaster 266	104.4	116.3	1.029	3.4	10.8
Coker 5110	95.7	109.8	1.027	2.2	9.8
Deltapine SR-2	101.2	113.9	1.000	5.6	10.1
Stoneville 213	91.9	106.8	1.001	2.8	9.2
Lankart LX 571	122.5	129.4	.958	6.0	11.7
Dunn 119	126.6	133.9	.981	4.0	12.7
Western 44	94.5	108.4	1.111	2.1	10.3
Acala SJ-5	104.6	116.4	1.027	2.2	10.7

Table 30.--Plains test: Combined seed data for Chillicothe, Tex. (irrigated and dryland), and Chickasha and Altus, Okla., by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Westburn M	19.4	3.70	0.79	11.8	7.5
Stoneville 213	17.3	3.40	.90	17.6	5.6
Tamcot Sp 21S	18.3	3.65	.67	11.7	7.1
Lockett 77	18.5	3.50	.67	14.3	6.3
Coker 5110	18.7	3.48	.88	15.0	6.0
PR 68	19.1	3.62	.71	13.9	7.0
Deltapine SR-2	19.8	3.65	.74	10.9	7.9
Tamcot 788	19.7	3.60	.70	14.1	6.9
Paymaster 303	19.0	3.54	.75	15.0	6.1
Western 44	19.5	3.69	.71	12.2	7.3
Lankart LX 571	17.7	3.60	.62	13.5	7.1
GSA 71	19.3	3.54	.82	13.4	7.4
Coker 310	18.7	3.60	.83	15.4	6.0
Paymaster 266	18.8	3.44	.79	14.2	6.4
Paymaster 785	18.6	3.56	.67	12.6	6.9
Dunn 119	17.6	3.46	.68	15.7	6.0
Stripper 31A	20.0	3.58	.89	13.2	7.0
Acala SJ-5	19.7	3.63	.65	12.8	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Westburn M	100.4	113.1	1.039	4.4	10.5
Stoneville 213	86.1	104.1	1.009	9.0	9.0
Tamcot Sp 21S	97.1	110.7	1.010	7.6	9.7
Lockett 77	98.5	111.7	1.027	8.2	10.1
Coker 5110	93.9	108.2	1.041	8.2	9.8
PR 68	96.7	110.3	1.027	7.6	9.9
Deltapine SR-2	98.7	112.1	1.024	7.1	10.2
Tamcot 788	94.9	109.0	1.046	5.9	9.9
Paymaster 303	99.3	112.4	1.015	7.2	10.1
Western 44	109.4	114.8	1.035	5.4	10.6
Lankart LX 571	118.3	126.2	.977	8.9	11.6
GSA 71	108.3	119.0	1.017	6.8	10.9
Coker 310	93.5	107.9	1.049	6.3	9.8
Paymaster 266	100.1	113.0	1.019	7.2	10.2
Paymaster 785	103.1	115.3	1.005	8.1	10.4
Dunn 119	116.7	124.9	.968	9.8	11.3
Stripper 31A	102.0	114.5	1.050	4.0	10.7
Acala SJ-5	102.0	114.4	1.025	7.6	10.5

Table 31.--Plains test: Seed data for Lubbock, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 77	20.1	3.34	0.80	13.3	6.0
Tamcot 788	21.6	3.33	.76	12.0	6.5
Paymaster 303	20.7	3.35	1.06	13.4	6.5
Tamcot Sp 21S	20.6	3.49	.70	12.7	6.5
PR 68	20.5	3.36	.78	13.5	6.0
Coker 310	20.0	3.40	.95	14.2	6.0
Coker 5110	20.3	3.13	1.03	14.9	6.0
Paymaster 785	20.7	3.31	.72	12.0	6.0
GSA 71	20.4	3.45	.85	10.4	8.0
Lankart LX 571	18.5	3.39	.67	12.2	7.0
Stoneville 213	18.5	3.27	1.19	16.7	5.0
Stripper 31A	21.5	3.47	1.07	11.4	7.0
Dunn 119	19.8	3.23	.79	15.3	4.5
Deltapine SR-2	21.4	3.38	.79	9.3	8.0
Westburn M	21.1	3.40	.90	11.1	7.0
Western 44	21.5	3.43	.81	9.8	7.5
Paymaster 266	20.9	2.95	.88	13.2	6.0
Acala SJ-5	21.3	3.55	.80	10.4	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Lockett 77	101.6	114.2	1.034	1.2	10.5
Tamcot 788	100.8	113.6	1.064	0.5	10.7
Paymaster 303	105.7	117.3	1.000	2.8	10.5
Tamcot Sp 21S	115.8	124.4	1.019	3.5	11.7
PR 68	106.9	118.1	1.008	3.2	10.7
Coker 310	93.9	108.4	1.045	0.5	9.8
Coker 5110	98.1	111.6	1.026	1.5	10.0
Paymaster 785	110.5	120.8	1.020	1.2	11.2
GSA 71	121.6	128.8	.975	4.8	11.8
Lankart LX 571	121.8	128.9	.958	4.8	11.6
Stoneville 213	91.4	106.4	1.009	1.8	9.2
Stripper 31A	105.1	116.8	.989	2.8	10.4
Dunn 119	134.9	138.0	.987	1.5	13.3
Deltapine SR-2	101.2	113.9	1.007	5.5	10.2
Westburn M	105.5	117.1	1.035	1.2	10.9
Western 44	102.6	115.0	1.035	1.2	10.6
Paymaster 266	106.4	117.7	1.027	2.2	10.9
Acala SJ-5	106.1	117.5	1.025	0.8	10.8

Table 32.--Plains test: Seed data for Chickasha, Okla.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.4	3.43	0.90	17.5	5.5
Tamcot Sp 21S	18.2	3.49	.64	11.5	7.0
Westburn M	19.1	3.54	.67	12.3	7.0
Lockett 77	18.3	3.34	.58	15.5	6.0
Paymaster 303	18.6	3.53	.72	14.6	6.5
Coker 5110	18.6	3.34	.80	15.0	6.0
PR 68	19.0	3.49	.66	13.2	7.0
GSA 71	18.2	3.36	.65	13.9	6.5
Western 44	19.3	3.62	.62	12.6	7.0
Deltapine SR-2	19.1	3.61	.72	11.6	7.5
Dunn 119	17.6	3.34	.68	15.3	5.5
Tamcot 788	19.1	3.49	.66	13.4	6.5
Paymaster 785	18.2	3.55	.58	14.4	6.5
Coker 310	19.0	3.50	.78	16.2	6.0
Lankart LX 571	17.6	3.45	.61	13.7	6.5
Paymaster 266	18.7	3.42	.66	13.4	6.5
Stripper 31A	19.0	3.53	.79	13.9	7.0
Acala SJ-5	19.9	3.52	.69	12.7	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	87.8	103.3	1.015	7.0	8.9
Tamcot Sp 21S	94.8	108.9	1.020	6.5	9.6
Westburn M	95.0	109.0	1.056	4.0	10.0
Lockett 77	95.2	109.1	1.035	9.5	9.8
Paymaster 303	93.8	108.2	1.027	5.8	9.6
Coker 5110	90.5	105.5	1.065	4.5	9.6
PR 68	78.1	95.8	1.042	7.0	8.1
GSA 71	102.1	114.2	1.015	4.5	10.3
Western 44	99.9	112.4	1.045	3.8	10.4
Deltapine SR-2	94.1	108.4	1.035	6.5	9.7
Dunn 119	101.5	113.4	.977	8.2	9.9
Tamcot 788	95.6	109.5	1.043	6.5	9.9
Paymaster 785	96.6	110.4	1.019	6.5	9.8
Coker 310	85.7	101.8	1.084	6.5	9.2
Lankart LX 571	113.3	122.5	.997	6.0	11.2
Paymaster 266	97.6	111.1	1.024	6.5	10.0
Stripper 31A	102.9	115.2	1.059	8.0	10.9
Acala SJ-5	91.2	106.3	1.060	6.2	9.6

Table 33.--Plains test: Seed data for Halfway, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 77	17.3	3.59	0.76	12.0	6.0
Paymaster 266	18.9	3.54	.82	11.8	6.0
Paymaster 785	19.4	3.73	.80	10.1	7.0
Westburn M	18.5	3.94	.93	8.1	8.0
Tamcot Sp 21S	19.4	3.92	.84	10.2	7.0
Paymaster 303	19.8	3.66	.70	12.2	6.5
Tamcot 788	19.8	3.80	.76	11.0	7.0
Stripper 31A	19.7	3.66	1.06	9.6	8.0
GSA 71	20.2	3.72	1.05	8.9	9.0
PR 68	18.2	3.82	.80	10.9	7.0
Deltapine SR-2	18.1	3.87	.74	7.1	8.0
Coker 310	18.7	3.89	.71	13.0	6.0
Western 44	19.6	3.73	.89	8.5	7.0
Coker 5110	18.3	3.82	.93	11.5	6.5
Stoneville 213	15.6	3.62	1.06	16.3	5.0
Acala SJ-5	19.4	3.82	.63	9.9	6.0
Lankart LX 571	18.1	3.77	.78	9.7	8.0
Dunn 119	18.0	3.64	.75	12.3	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Lockett 77	94.0	108.5	1.019	3.5	9.6
Paymaster 266	102.4	114.8	1.031	4.5	10.5
Paymaster 785	102.5	114.8	1.015	3.8	10.4
Westburn M	103.3	115.5	1.000	4.8	10.3
Tamcot Sp 21S	102.1	115.8	1.007	5.5	10.2
Paymaster 303	104.7	116.5	1.018	2.2	10.6
Tamcot 788	97.2	110.9	1.033	3.8	10.0
Stripper 31A	96.8	110.6	.995	6.5	9.6
GSA 71	117.2	125.6	.989	3.5	11.5
PR 68	104.5	116.3	.995	2.2	10.4
Deltapine SR-2	101.1	113.8	.993	5.8	10.0
Coker 310	91.4	106.4	1.041	1.2	9.5
Western 44	86.3	101.8	1.186	3.0	9.8
Coker 5110	93.3	107.9	1.026	3.0	9.5
Stoneville 213	92.4	107.2	.993	3.8	9.1
Acala SJ-5	103.0	115.3	1.027	3.8	10.6
Lankart LX 571	123.1	129.8	.957	7.2	11.7
Dunn 119	118.3	129.7	.975	6.5	12.0

Table 34.--Plains test: Seed data for Chillicothe, Tex. (irrigated)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.7	3.59	0.88	18.0	6.0
Tamcot Sp 21S	18.1	3.91	.59	11.7	8.0
Coker 5110	18.7	3.76	.98	14.8	6.0
PR 68	19.4	3.83	.70	13.1	7.0
Lockett 77	18.8	3.82	.62	10.9	7.0
Paymaster 303	19.1	3.70	.60	15.2	6.0
Paymaster 785	18.6	3.66	.62	10.7	7.0
Deltapine SR-2	19.7	3.97	.69	10.3	8.0
Westburn M	19.7	3.98	.77	10.2	8.0
Lankart LX 571	17.6	3.76	.55	13.6	8.0
GSA 71	20.2	3.92	.83	12.7	8.0
Western 44	19.7	4.04	.63	13.1	8.0
Paymaster 266	19.0	3.74	.67	13.8	7.0
Dunn 119	17.2	3.65	.60	17.0	6.5
Coker 310	18.5	3.87	.70	15.6	6.0
Tamcot 788	19.3	3.83	.59	15.5	7.0
Acala SJ-5	19.8	3.89	.59	12.8	7.0
Stripper 31A	20.2	3.81	.83	12.4	8.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	84.4	100.9	1.048	3.0	8.9
Tamcot Sp 21S	90.9	106.0	1.022	5.0	9.3
Coker 5110	91.9	106.8	1.078	2.8	9.9
PR 68	101.7	114.3	1.048	2.0	10.6
Lockett 77	94.7	109.0	1.036	1.8	9.8
Paymaster 303	92.9	107.6	1.036	4.8	9.6
Paymaster 785	104.2	116.2	.998	3.8	10.4
Deltapine SR-2	97.0	111.5	1.054	2.0	10.3
Westburn M	103.2	115.4	1.043	1.8	10.7
Lankart LX 571	119.8	127.4	.972	4.0	11.6
GSA 71	105.4	117.1	1.047	1.8	11.0
Western 44	103.5	115.6	1.047	2.0	10.8
Paymaster 266	99.3	112.5	1.013	2.5	10.0
Dunn 119	115.9	124.7	.963	10.1	11.1
Coker 310	90.8	106.0	1.072	3.2	9.7
Tamcot 788	92.9	107.6	1.048	3.8	9.7
Acala SJ-5	101.5	114.1	1.041	2.2	10.5
Stripper 31A	97.7	111.3	1.052	1.2	10.3

Table 35.--Plains test: Seed data for Chillicothe, Tex. (dryland)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Westburn M	19.3	3.77	0.81	12.5	8.0
Stoneville 213	16.6	3.53	.72	16.5	6.0
Lockett 77	18.0	3.68	.64	14.8	6.0
Tamcot Sp 21S	18.0	3.83	.65	11.8	7.0
Coker 5110	18.8	3.67	.89	14.2	6.0
Deltapine SR-2	20.1	3.66	.83	10.1	8.0
PR 68	19.1	3.77	.64	15.6	7.0
Lankart LX 571	17.6	3.63	.64	14.0	7.0
Western 44	19.2	3.73	.76	11.6	7.0
Coker 310	18.5	3.67	.88	14.8	6.0
Paymaster 303	18.2	3.53	.71	14.9	6.0
Tamcot 788	19.7	3.69	.73	13.9	7.0
Paymaster 266	18.9	3.39	.78	14.5	6.0
Dunn 119	16.7	3.53	.67	15.3	6.0
Paymaster 785	18.4	3.67	.65	13.9	7.0
GSA 71	19.1	3.67	.86	12.4	8.0
Stripper 31A	19.7	3.61	.96	13.5	7.0
Acala SJ-5	19.2	3.79	.61	11.6	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Westburn M	108.3	119.1	1.062	0.8	11.4
Stoneville 213	92.5	107.3	1.014	2.8	9.3
Lockett 77	99.4	112.6	1.047	4.0	10.4
Tamcot Sp 21S	99.4	112.4	1.026	4.5	10.1
Coker 5110	100.4	113.3	1.060	2.8	10.6
Deltapine SR-2	106.6	118.0	1.027	4.2	10.9
PR 68	105.3	116.9	1.052	1.2	10.8
Lankart LX 571	125.5	131.5	.989	1.8	12.4
Western 44	104.1	116.1	1.063	2.2	11.0
Coker 310	101.5	114.1	1.060	2.8	10.7
Paymaster 303	103.3	115.5	1.011	5.5	10.4
Tamcot 788	97.7	111.3	1.075	2.8	10.4
Paymaster 266	102.7	115.0	1.049	5.2	10.7
Dunn 119	126.2	131.9	.967	7.0	12.2
Paymaster 785	109.9	120.4	1.022	4.0	11.2
GSA 71	113.8	123.3	1.037	1.5	11.8
Stripper 31A	105.3	116.9	1.055	1.8	11.1
Acala SJ-5	113.9	123.2	1.028	3.0	11.7

Table 36.--Plains test: Seed data for Altus, Okla.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Westburn M	19.2	3.50	0.91	11.1	7.0
Tamcot 788	20.0	3.39	.82	13.5	7.0
Tamcot Sp 21S	18.9	3.34	.78	11.5	6.5
Coker 5110	18.6	3.13	.85	15.7	6.0
Lockett 77	18.7	3.17	.85	15.8	6.0
Coker 310	18.7	3.34	.94	14.9	6.0
Lankart LX 571	18.0	3.53	.67	12.4	7.0
Paymaster 266	18.5	3.20	.80	15.0	6.0
Western 44	19.7	3.36	.83	11.1	7.0
Stoneville 213	17.3	3.05	1.08	18.4	5.0
GSA 71	19.4	3.29	.94	14.2	7.0
Deltapine SR-2	20.0	3.37	.71	11.3	8.0
PR 68	18.9	3.40	.85	13.5	7.0
Dunn 119	19.0	3.32	.76	15.0	6.0
Paymaster 303	20.0	3.38	.96	15.0	6.0
Acala SJ-5	19.9	3.31	.70	13.8	6.0
Paymaster 785	18.9	3.35	.81	11.2	7.0
Stripper 31A	21.1	3.37	.94	13.0	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floater (percent)	Acid- delinted- seed index
Westburn M	94.8	108.9	0.995	11.2	9.7
Tamcot 788	93.2	107.8	1.016	10.8	9.5
Tamcot Sp 21S	103.2	115.3	.972	14.5	9.5
Coker 5110	92.8	107.4	.958	23.0	8.9
Lockett 77	104.5	116.2	.989	17.5	10.4
Coker 310	95.8	109.7	.979	12.8	9.4
Lankart LX 571	114.4	123.6	.946	23.8	10.8
Paymaster 266	100.7	113.5	.987	14.5	9.9
Western 44	103.1	115.3	.984	13.8	10.2
Stoneville 213	89.8	105.1	.948	23.2	8.5
GSA 71	111.7	121.6	.970	19.2	10.2
Deltapine SR-2	97.0	110.6	.979	15.8	9.8
PR 68	101.7	114.2	.965	20.0	9.8
Dunn 119	123.1	129.8	.963	13.8	11.8
Paymaster 303	107.2	118.2	.987	13.0	10.6
Acala SJ-5	101.6	114.1	.969	18.8	9.9
Paymaster 785	101.7	114.2	.981	18.3	10.0
Stripper 31A	102.1	114.6	1.034	5.0	10.5

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Table 37.--Western test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	20.4 bcd	3.60 bc	0.87 ab	14.6 c	6.7 b
Stoneville 213	18.8 e	3.52 bc	.94 a	18.0 a	5.7 e
Coker 310	20.3 bcd	3.61 b	.91 a	14.9 c	6.0 d
Deltapine 61	19.9 d	3.37 d	.88 ab	16.5 b	6.2 c
Acala 1517-77	20.2 cd	3.49 c	.83 b	15.2 c	6.0 d
Tamcot Sp 21	20.7 abc	3.60 bc	.94 a	12.6 d	7.0 a
Acala 1517-75	21.0 ab	3.61 b	.81 b	13.3 d	6.3 c
Paymaster 303	20.8 abc	3.56 bc	.82 b	15.7 bc	5.7 e
Acala SJ-5	21.4 a	3.75 a	.64 c	12.6 d	6.2 c
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 220	87.4 ef	103.2 de	1.054 bc	2.1 a	9.2 cd
Stoneville 213	84.7 f	101.1 e	1.042 de	1.4 a	8.8 e
Coker 310	89.1 e	104.6 d	1.068 a	1.8 a	9.5 c
Deltapine 61	85.7 f	101.9 e	1.035 e	2.4 a	8.8 de
Acala 1517-77	100.2 bc	114.1 a	1.062 ab	1.6 a	10.7 a
Tamcot Sp 21	96.0 d	108.7 c	1.047 cd	2.2 a	10.0 b
Acala 1517-75	104.0 a	116.0 a	1.038 de	2.6 a	10.6 a
Paymaster 303	98.0 cd	111.4 b	1.039 de	2.3 a	10.2 b
Acala SJ-5	101.7 ab	114.3 a	1.063 a	1.2 a	10.8 a

Table 38.--Western test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Phoenix, Ariz.	21.7 a	3.66 b	0.92 b	15.7 a	5.8 c
Las Cruces, N. Mex.	21.5 a	3.18 d	.99 a	14.2 b	6.4 a
Yuma, Ariz.	19.8 b	3.85 a	.71 d	14.2 b	6.4 a
El Paso, Tex.	18.5 c	3.58 c	.77 c	15.2 a	6.1 b
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Phoenix, Ariz.	93.0 b	107.6 b	1.062 a	2.0 ab	9.9 b
Las Cruces, N. Mex.	97.8 a	111.1 a	1.061 a	1.3 b	10.4 a
Yuma, Ariz.	92.0 b	106.8 b	1.035 c	2.4 a	9.4 c
El Paso, Tex.	93.5 b	108.0 b	1.042 b	2.0 ab	9.7 b

Table 39.--Western test: Combined seed data for Yuma and Phoenix, Ariz.,
by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	20.8	3.56	0.86	16.7	6.5
McNair 220	20.6	3.81	.82	14.8	6.5
Stoneville 213	19.0	3.73	.93	17.7	5.5
Coker 310	20.7	3.78	.92	14.7	6.0
Tamcot Sp 21	21.1	3.82	.89	12.8	7.0
Paymaster 303	21.2	3.76	.76	15.6	5.5
Acala SJ-5	21.4	3.91	.60	12.5	6.0
Acala 1517-75	21.2	3.72	.79	13.7	6.2
Acala 1517-77	20.8	3.70	.77	15.6	6.2
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	80.9	98.1	1.041	1.9	8.4
McNair 220	86.2	102.4	1.055	2.6	9.1
Stoneville 213	83.4	100.1	1.044	1.5	8.7
Coker 310	91.1	106.2	1.077	1.1	9.8
Tamcot Sp 21	91.6	106.5	1.049	3.8	9.6
Paymaster 303	96.2	110.1	1.039	2.5	10.0
Acala SJ-5	100.8	113.6	1.055	1.4	10.6
Acala 1517-75	102.0	114.5	1.028	3.3	10.1
Acala 1517-77	100.4	113.3	1.048	2.1	10.5

Table 40.--Western test: Combined seed data for El Paso, Tex., and Las Cruces, N. Mex., by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	20.3	3.38	0.93	14.4	7.0
Acala 1517-77	19.5	3.29	.89	14.7	5.7
Stoneville 213	18.6	3.31	.96	18.3	6.0
Tamcot Sp 21	20.3	3.39	.99	12.4	7.0
Acala 1517-75	20.7	3.51	.83	12.8	6.5
Coker 310	19.8	3.44	.91	15.1	6.0
Acala SJ-5	21.3	3.59	.68	12.6	6.5
Paymaster 303	20.5	3.36	.87	15.8	6.0
Deltapine 61	19.0	3.19	.90	16.3	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 220	88.5	104.1	1.053	1.6	9.3
Acala 1517-77	100.0	114.9	1.076	1.0	11.0
Stoneville 213	86.0	102.2	1.039	1.4	8.9
Tamcot Sp 21	100.5	110.8	1.044	0.6	10.5
Acala 1517-75	106.0	117.5	1.048	1.9	11.1
Coker 310	86.1	103.1	1.060	2.5	9.2
Acala SJ-5	102.7	115.0	1.072	1.0	11.0
Paymaster 303	99.7	112.8	1.039	2.1	10.3
Deltapine 61	90.4	105.6	1.030	3.0	9.3

Table 41.--Western test: Seed data for Las Cruces, N. Mex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	22.0	3.03	1.09	14.3	7.0
Acala 1517-77	21.5	3.17	.97	14.2	6.0
Coker 310	21.3	3.23	1.03	16.1	6.0
Tamcot Sp 21	21.6	3.08	1.07	12.0	7.0
Acala 1517-75	22.6	3.26	.98	12.0	7.0
Paymaster 303	22.1	3.25	.89	14.8	6.0
Stoneville 213	19.7	3.18	1.17	16.7	6.0
Deltapine 61	20.2	3.03	1.03	16.0	6.0
Acala SJ-5	22.7	3.44	.74	11.7	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 220	93.2	107.8	1.054	1.5	9.8
Acala 1517-77	94.7	112.8	1.090	1.5	10.8
Coker 310	86.2	102.4	1.079	2.5	9.3
Tamcot Sp 21	105.7	112.3	1.050	0.0	11.1
Acala 1517-75	105.9	117.4	1.062	2.0	11.2
Paymaster 303	101.7	114.3	1.053	0.5	10.7
Stoneville 213	90.1	105.4	1.056	0.0	9.5
Deltapine 61	96.1	110.1	1.033	3.5	9.9
Acala SJ-5	107.0	118.2	1.074	0.5	11.5

Table 42.--Western test: Seed data for Phoenix, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	21.7	3.33	1.00	18.1	6.0
Stoneville 213	20.1	3.72	1.05	18.6	5.0
McNair 220	21.5	3.67	.94	15.8	6.0
Tamcot Sp 21	22.1	3.76	1.01	13.7	7.0
Coker 310	21.5	3.70	1.00	15.8	6.0
Acala 1517-75	22.5	3.62	.98	13.7	6.0
Acala 1517-77	22.2	3.65	.92	15.6	6.0
Paymaster 303	21.7	3.72	.75	16.1	5.0
Acala SJ-5	22.3	3.79	.65	13.6	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	82.9	99.7	1.031	2.5	8.5
Stoneville 213	83.3	100.0	1.058	1.5	8.8
McNair 220	87.8	103.6	1.074	1.5	9.4
Tamcot Sp 21	89.5	104.9	1.061	2.8	9.5
Coker 310	95.3	109.4	1.038	1.8	9.9
Acala 1517-75	103.5	115.6	1.057	2.2	10.9
Acala 1517-77	100.8	113.6	1.066	2.8	10.7
Paymaster 303	99.0	112.2	1.045	2.2	10.3
Acala SJ-5	98.5	111.9	1.079	1.2	10.6

Table 43.--Western test: Seed data for Yuma, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	18.0	3.75	0.81	16.7	6.0
Coker 310	20.0	3.87	.85	13.6	6.0
Deltapine 61	20.0	3.79	.73	15.4	7.0
McNair 220	19.8	3.95	.70	13.9	7.0
Paymaster 303	20.7	3.80	.78	15.1	6.0
Acala SJ-5	20.6	4.04	.56	11.5	6.0
Tamcot Sp 21	20.2	3.89	.78	12.0	7.0
Acala 1517-77	19.4	3.75	.63	15.7	6.5
Acala 1517-75	19.9	3.82	.60	13.7	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	83.5	100.2	1.031	1.5	8.6
Coker 310	89.8	105.2	1.066	0.5	9.5
Deltapine 61	79.0	96.6	1.050	1.2	8.3
McNair 220	84.7	101.1	1.036	3.8	8.7
Paymaster 303	93.4	107.9	1.032	2.8	9.6
Acala SJ-5	103.0	115.3	1.031	1.5	10.6
Tamcot Sp 21	93.7	108.2	1.038	4.8	9.7
Acala 1517-77	100.1	113.1	1.030	1.5	10.3
Acala 1517-75	100.6	113.4	1.000	4.3	9.3

Table 44.--Western test: Seed data for El Paso, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.6	3.44	0.75	19.9	6.0
McNair 220	18.5	3.74	.78	14.6	7.0
Acala SJ-5	19.9	3.74	.63	13.5	6.0
Acala 1517-77	17.6	3.41	.81	15.2	5.5
Tamcot Sp 21	19.0	3.70	.92	12.9	7.0
Deltapine 61	17.8	3.36	.78	16.6	6.0
Acala 1517-75	18.9	3.76	.67	13.7	6.0
Coker 310	18.4	3.66	.79	14.0	6.0
Paymaster 303	18.9	3.47	.86	16.7	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	82.0	99.0	1.023	2.8	8.5
McNair 220	83.9	100.5	1.053	1.8	8.8
Acala SJ-5	98.5	111.9	1.070	1.5	10.5
Acala 1517-77	105.4	117.1	1.063	0.5	11.2
Tamcot Sp 21	95.3	109.4	1.038	1.2	9.9
Deltapine 61	84.8	101.2	1.027	2.5	8.7
Acala 1517-75	106.1	117.6	1.035	1.8	11.0
Coker 310	88.1	103.8	1.041	2.5	9.1
Paymaster 303	97.8	111.4	1.026	3.8	10.0

Table 17.--Delta test: Seed data for Tunica, Miss.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	16.5	3.70	0.72	14.9	5.0
DES 24	16.5	3.89	.67	12.5	6.0
Deltapine 55	16.1	3.84	.63	13.0	6.0
DES 56	17.3	3.89	.58	11.9	6.0
Deltapine 61	17.2	3.69	.49	12.3	7.0
Coker 310	18.2	3.80	.62	11.3	6.0
Stoneville 731N ...	15.6	3.71	.59	13.6	6.0
Stoneville 256	16.0	3.77	.61	13.8	6.0
Rex 713	17.8	3.87	.55	10.3	7.0
Paymaster 303	18.4	3.84	.57	12.6	6.0
Acala SJ-5	19.2	4.02	.50	10.7	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	100.0	112.9	1.015	4.8	10.1
DES 24	104.1	116.0	1.041	3.2	10.8
Deltapine 55	94.2	108.6	1.020	4.8	9.6
DES 56	98.7	112.1	1.032	3.2	10.2
Deltapine 61	100.4	113.3	1.028	2.2	10.3
Coker 310	110.3	120.6	1.045	1.5	11.7
Stoneville 731N ...	95.9	109.8	1.007	10.8	9.6
Stoneville 256	95.8	109.8	1.011	9.8	9.7
Rex 713	114.3	123.5	.999	5.0	11.4
Paymaster 303	110.0	120.4	1.006	5.5	11.0
Acala SJ-5	112.5	122.2	1.069	2.2	12.0

Table 18.--Delta test: Seed data for Clarkedale, Ark.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	20.0	3.05	1.08	12.8	6.0
Deltapine 55	19.6	3.30	1.16	9.7	6.0
Stoneville 213	21.1	3.04	1.22	14.8	5.0
Coker 310	21.2	3.22	1.14	11.6	5.5
Paymaster 303	22.8	2.96	1.13	13.3	5.0
Stoneville 731N ...	20.2	3.11	1.11	13.8	5.0
Stoneville 256	20.3	3.06	1.15	12.7	6.0
DES 56	20.9	3.26	1.21	12.0	6.0
DES 24	19.9	3.37	1.14	13.1	6.0
Rex 713	22.8	2.87	1.11	11.2	7.0
Acala SJ-5	21.8	3.54	.96	9.2	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	89.8	104.9	1.010	3.0	9.0
Deltapine 55	89.0	104.5	1.041	4.2	9.2
Stoneville 213	99.3	112.5	1.025	3.2	10.2
Coker 310	95.8	109.8	1.033	3.0	9.9
Paymaster 303	102.2	114.7	1.029	3.0	10.5
Stoneville 731N ...	92.5	107.3	1.039	3.5	9.6
Stoneville 256	92.9	107.6	1.010	7.2	9.4
DES 56	95.3	109.4	1.038	1.5	9.9
DES 24	97.9	111.4	1.019	3.8	9.9
Rex 713	105.9	117.4	1.019	3.5	10.8
Acala SJ-5	107.3	118.4	1.037	2.8	11.1

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Table 45.--San Joaquin test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2	18.2 d	3.25 c	1.14 a	17.8 a	3.5 c
Stoneville 213	18.3 d	3.31 c	1.26 a	17.1 a	4.8 b
Acala SJ-5	20.6 a	3.50 a	.82 b	13.1 d	5.6 a
Paymaster 303	19.9 b	3.45 ab	.92 b	15.1 c	5.5 ab
Coker 310	19.1 c	3.41 b	1.11 a	16.0 b	5.5 ab
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2	116.4 a	125.1 a	1.025 ab	5.6 ab	11.9 a
Stoneville 213	96.9 c	110.7 c	1.016 b	8.7 a	9.8 c
Acala SJ-5	112.1 b	121.9 ab	1.036 a	3.3 b	11.6 a
Paymaster 303	109.5 b	120.0 b	1.002 c	8.5 a	10.9 b
Coker 310	96.5 c	110.2 c	1.030 ab	8.8 a	9.9 c

Table 46.--San Joaquin test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
West Side Field					
Station, Calif. .	20.1 a	3.34 b	1.10 a	15.7 ab	5.4 a
Maricopa, Calif. ..	19.8 a	3.42 a	1.12 a	15.5 b	4.8 b
Madera, Calif.	17.7 b	3.39 ab	.93 b	16.3 a	4.8 b
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
West Side Field					
Station, Calif. .	102.7 b	114.9 b	1.036 a	3.5 b	10.6 b
Maricopa, Calif. ..	108.4 a	119.2 a	1.023 b	4.3 b	11.1 a
Madera, Calif.	107.7 a	118.6 a	1.006 c	13.2 a	10.8 ab

Table 47.--San Joaquin test: Seed data for West Side Field Station
(Five Points), Calif.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2	18.8	3.22	1.23	18.3	3.5
Acala SJ-5	21.5	3.43	.85	12.9	6.0
Stoneville 213	19.3	3.27	1.30	16.9	5.5
Paymaster 303	21.1	3.40	.95	14.5	6.0
Coker 310	19.9	3.40	1.14	15.8	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2	115.4	124.4	1.044	1.8	12.0
Acala SJ-5	105.2	116.9	1.064	1.2	11.2
Stoneville 213	94.0	108.5	1.028	3.8	9.6
Paymaster 303	103.6	115.7	1.020	4.5	10.5
Coker 310	95.2	108.4	1.024	6.2	9.7

Table 48.--San Joaquin test: Seed data for Maricopa, Calif.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	19.3	3.33	1.34	16.3	5.0
Acala SJ-2	19.3	3.28	1.23	16.8	3.5
Acala SJ-5	20.5	3.55	.87	13.9	5.0
Coker 310	20.0	3.42	1.22	15.1	5.5
Paymaster 303	20.1	3.52	.93	15.4	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	97.0	110.7	1.030	4.0	10.0
Acala SJ-2	119.5	127.3	1.023	2.8	12.2
Acala SJ-5	116.3	125.0	1.018	2.8	11.8
Coker 310	99.6	112.7	1.039	6.3	10.3
Paymaster 303	109.8	120.3	1.008	5.8	11.0

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Table 45.--San Joaquin test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2	18.2 d	3.25 c	1.14 a	17.8 a	3.5 c
Stoneville 213	18.3 d	3.31 c	1.26 a	17.1 a	4.8 b
Acala SJ-5	20.6 a	3.50 a	.82 b	13.1 d	5.6 a
Paymaster 303	19.9 b	3.45 ab	.92 b	15.1 c	5.5 ab
Coker 310	19.1 c	3.41 b	1.11 a	16.0 b	5.5 ab
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2	116.4 a	125.1 a	1.025 ab	5.6 ab	11.9 a
Stoneville 213	96.9 c	110.7 c	1.016 b	8.7 a	9.8 c
Acala SJ-5	112.1 b	121.9 ab	1.036 a	3.3 b	11.6 a
Paymaster 303	109.5 b	120.0 b	1.002 c	8.5 a	10.9 b
Coker 310	96.5 c	110.2 c	1.030 ab	8.8 a	9.9 c

Table 46.--San Joaquin test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
West Side Field Station, Calif. .	20.1 a	3.34 b	1.10 a	15.7 ab	5.4 a
Maricopa, Calif. ..	19.8 a	3.42 a	1.12 a	15.5 b	4.8 b
Madera, Calif.	17.7 b	3.39 ab	.93 b	16.3 a	4.8 b
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
West Side Field Station, Calif. .	102.7 b	114.9 b	1.036 a	3.5 b	10.6 b
Maricopa, Calif. ..	108.4 a	119.2 a	1.023 b	4.3 b	11.1 a
Madera, Calif.	107.7 a	118.6 a	1.006 c	13.2 a	10.8 ab

Table 47.--San Joaquin test: Seed data for West Side Field Station
(Five Points), Calif.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2	18.8	3.22	1.23	18.3	3.5
Acala SJ-5	21.5	3.43	.85	12.9	6.0
Stoneville 213	19.3	3.27	1.30	16.9	5.5
Paymaster 303	21.1	3.40	.95	14.5	6.0
Coker 310	19.9	3.40	1.14	15.8	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2	115.4	124.4	1.044	1.8	12.0
Acala SJ-5	105.2	116.9	1.064	1.2	11.2
Stoneville 213	94.0	108.5	1.028	3.8	9.6
Paymaster 303	103.6	115.7	1.020	4.5	10.5
Coker 310	95.2	108.4	1.024	6.2	9.7

Table 48.--San Joaquin test: Seed data for Maricopa, Calif.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	19.3	3.33	1.34	16.3	5.0
Acala SJ-2	19.3	3.28	1.23	16.8	3.5
Acala SJ-5	20.5	3.55	.87	13.9	5.0
Coker 310	20.0	3.42	1.22	15.1	5.5
Paymaster 303	20.1	3.52	.93	15.4	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	97.0	110.7	1.030	4.0	10.0
Acala SJ-2	119.5	127.3	1.023	2.8	12.2
Acala SJ-5	116.3	125.0	1.018	2.8	11.8
Coker 310	99.6	112.7	1.039	6.3	10.3
Paymaster 303	109.8	120.3	1.008	5.8	11.0

Table 49.--San Joaquin test: Seed data for Madera, Calif.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Paymaster 303	18.4	3.44	0.83	15.4	5.5
Acala SJ-2	16.5	3.24	.96	18.2	3.5
Stoneville 213	16.4	3.32	1.16	18.1	4.0
Acala SJ-5	19.9	3.54	.74	12.5	6.0
Coker 310	17.3	3.41	.98	17.2	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Paymaster 303	115.2	124.2	0.978	15.2	11.2
Acala SJ-2	114.3	123.6	1.007	12.2	11.5
Stoneville 213	99.7	112.8	.992	18.2	9.9
Acala SJ-5	114.8	123.9	1.027	6.0	11.7
Coker 310	94.7	108.7	1.027	14.0	9.7

HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 50.--High-quality test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 4601	20.9 cd	3.92 bcd	1.01 cde	18.2 a	5.3 f
McNair 3150	20.9 cd	3.98 ab	.84 fgh	17.6 ab	6.0 cd
McNair 3151	19.3 f	3.74 de	.89 defg	17.9 a	5.3 f
PD 4548	21.9 ab	3.88 bcde	1.08 bc	16.5 abcd	6.0 cd
Coker 6118	20.8 cd	3.93 bc	.53 i	15.0 d	6.1 b
Stoneville 213	18.4 g	3.77 cde	.96 cdef	17.5 ab	5.6 e
Mo. 63-277-1B	22.5 a	4.14 a	1.17 ab	14.6 de	6.3 b
Deltapine 264	18.8 fg	3.73 e	.86 efgh	17.6 ab	5.8 de
Coker 310	20.7 d	3.93 bc	.91 defg	15.4 cd	6.3 b
Stoneville 1395 ...	22.3 a	3.98 ab	1.26 a	14.9 d	6.3 b
PD 4585	21.7 abc	3.97 ab	.80 gh	16.5 abcd	5.6 e
Stoneville 1434 ...	19.5 ef	3.75 cde	1.01 cde	17.1 abc	6.0 cd
McNair 3034	20.9 cd	3.93 bc	.99 cdef	15.8 bcd	6.6 a
Mo 63-277J	20.3 de	4.04 ab	1.05 bcd	16.3 abcd	5.8 de
PD 695	21.1 bcd	3.86 bcde	1.03 bcd	15.7 bcd	6.6 a
Acala SJ-5	20.8 cd	3.99 ab	.73 h	13.1 e	6.3 b
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Coker 4601	86.3 fgh	102.2 ef	1.114 a	1.6 cd	9.5 bcd
McNair 3150	88.1 efgh	103.8 def	1.095 cd	0.8 cd	9.4 bcd
McNair 3151	95.2 abc	109.3 abc	1.044 g	2.7 bcd	9.9 b
PD 4548	88.0 fgh	103.6 def	1.094 cd	1.7 bcd	9.6 bcd
Coker 6118	90.4 cdefg	105.5 cde	1.104 bc	0.7 d	9.9 b
Stoneville 213	84.4 h	100.9 f	1.039 g	2.7 bcd	8.7 e
Mo. 63-277-1B	86.2 gh	102.2 ef	1.128 a	1.9 bcd	9.7 bcd
Deltapine 264	93.5 abcd	108.0 abc	1.041 g	2.7 bcd	9.7 bcd
Coker 310	85.0 h	101.4 f	1.089 cd	1.2 cd	9.2 cde
Stoneville 1395 ...	93.2 bcde	107.8 abc	1.051 fg	3.0 bc	9.7 bcd
PD 4585	91.0 bcdefg	106.0 bcde	1.080 de	2.2 bcd	9.8 bc
Stoneville 1434 ...	95.7 ab	109.7 ab	1.011 h	5.8 a	9.6 bcd
McNair 3034	89.3 defgh	106.0 bcde	1.064 ef	1.7 bcd	9.3 cd
Mo 63-277J	98.5 a	111.7 a	1.105 bc	1.7 bcd	10.8 a
PD 695	84.6 h	100.8 f	1.089 cd	0.9 cd	9.2 de
Acala SJ-5	91.5 bcdef	106.3 bcd	1.071 e	3.9 ab	9.7 bc

Table 51.--High-quality test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Florence, S. C. ...	20.8 b	3.30 b	1.03 a	17.3 a	5.6 c
Belle Mina, Ala. ..	19.5 c	4.18 a	.83 c	16.8 a	5.8 b
Rohwer, Ark.	21.7 a	4.24 a	.97 b	14.5 b	6.5 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Florence, S. C. ...	82.8 c	99.6 c	1.095 a	1.8 a	9.0 c
Belle Mina, Ala. ..	86.1 b	102.5 b	1.091 a	2.2 a	9.3 b
Rohwer, Ark.	101.3 a	113.9 a	1.043 b	2.6 a	10.5 a

Table 52.--High-quality test: Combined seed data for Florence, S. C.
and Belle Mina, Ala., by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
PD 4548	21.4	3.79	0.95	17.0	6.5
Coker 4601	20.6	3.74	1.02	18.8	5.0
McNair 3150	20.5	3.82	.84	18.6	6.0
Coker 6118	20.0	3.78	.55	15.5	6.0
Coker 310	20.3	3.73	.97	16.2	6.0
McNair 3151	18.7	3.58	.85	18.8	5.0
Mo. 63-277-1B	21.9	3.92	1.11	15.7	6.0
PD 4585	21.0	3.68	.83	16.8	5.5
Stoneville 213	18.4	3.61	1.01	18.2	5.0
Deltapine 264	18.5	3.57	.86	18.3	5.5
Stoneville 1395 ...	21.9	3.80	1.26	16.0	6.0
Stoneville 1434 ...	19.2	3.69	.90	17.6	6.0
PD 695	20.2	3.73	1.05	16.4	6.5
McNair 3034	20.2	3.78	.94	17.5	6.5
Mo 63-277J	19.5	3.84	.98	17.6	5.2
Acala SJ-5	20.2	3.70	.71	13.9	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
PD 4548	81.8	98.8	1.104	1.3	9.0
Coker 4601	78.1	95.7	1.140	1.9	8.9
McNair 3150	83.8	100.4	1.102	0.6	9.0
Coker 6118	84.4	100.9	1.124	0.9	9.5
Coker 310	81.3	98.4	1.112	0.4	9.0
McNair 3151	91.0	106.1	1.053	2.7	9.6
Mo. 63-277-1B	80.4	97.7	1.136	2.5	9.1
PD 4585	85.1	101.5	1.096	2.1	9.3
Stoneville 213	82.5	99.3	1.064	3.1	8.7
Deltapine 264	90.3	105.5	1.058	2.6	9.5
Stoneville 1395 ...	88.5	104.2	1.073	2.6	9.4
Stoneville 1434 ...	90.9	106.0	1.038	2.5	9.4
PD 695	76.0	94.1	1.100	0.9	8.3
McNair 3034	84.2	102.7	1.079	1.4	8.8
Mo 63-277J	89.8	105.1	1.117	1.6	10.0
Acala SJ-5	83.3	100.0	1.090	4.7	9.0

Table 53.--High-quality test: Seed data for Florence, S. C.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 4601	21.2	3.26	1.15	18.9	5.0
PD 4548	22.4	3.35	1.17	17.6	6.0
Coker 310	21.1	3.24	1.10	16.9	6.0
Coker 6118	20.7	3.35	.59	15.8	6.0
Stoneville 1395 ...	22.5	3.40	1.33	16.7	6.0
Mo. 63-277-1B	22.4	3.43	1.21	16.7	6.0
McNair 3034	20.6	3.38	1.07	15.9	6.0
McNair 3150	21.1	3.32	.96	17.1	6.0
Stoneville 213	19.2	3.23	1.08	18.5	5.0
McNair 3151	19.9	3.14	.95	19.4	5.0
PD 4585	22.0	3.34	.88	18.1	5.0
Stoneville 1434 ...	19.9	3.20	1.02	18.0	6.0
PD 695	20.6	3.40	1.22	17.4	6.0
Deltapine 264	19.8	3.15	1.00	17.9	5.5
Mo 63-277J	19.6	3.51	1.07	18.2	5.0
Acala SJ-5	20.3	3.19	.79	14.3	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Coker 4601	74.1	92.5	1.127	2.5	8.3
PD 4548	78.7	96.3	1.110	1.3	8.7
Coker 310	78.5	96.2	1.105	0.5	8.6
Coker 6118	83.5	100.2	1.116	0.8	9.3
Stoneville 1395 ...	88.4	104.0	1.081	2.8	9.5
Mo. 63-277-1B	79.1	96.6	1.143	1.5	9.0
McNair 3034	82.1	99.1	1.083	1.2	8.9
McNair 3150	82.2	99.2	1.104	0.5	9.0
Stoneville 213	81.6	98.7	1.071	2.5	8.7
McNair 3151	88.9	104.5	1.043	2.7	9.3
PD 4585	82.5	99.4	1.100	1.8	9.0
Stoneville 1434 ...	88.0	103.8	1.049	2.3	9.2
PD 695	74.8	93.1	1.107	0.5	8.2
Deltapine 264	86.0	102.2	1.070	1.2	9.2
Mo 63-277J	90.9	106.0	1.127	1.0	10.2
Acala SJ-5	86.0	102.2	1.074	5.5	9.2

Table 54.--High-quality test: Seed data for Belle Mina, Ala.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
PD 4548	20.3	4.23	0.96	16.3	6.0
Coker 6118	19.4	4.20	.52	15.2	6.0
McNair 3150	19.9	4.31	.73	20.6	6.0
McNair 3151	17.5	4.01	.76	18.2	5.0
Stoneville 213	17.5	3.98	.95	18.0	5.0
Mo. 63-277-1B	21.3	4.42	1.02	14.7	6.0
Coker 4601	19.9	4.21	.90	18.6	5.0
Stoneville 1395 ...	21.3	4.20	1.19	15.4	6.0
Coker 310	19.4	4.22	.85	15.6	6.0
Stoneville 1434 ...	18.4	4.17	.75	17.3	6.0
PD 4585	20.1	4.36	.71	15.6	6.0
Deltapine 264	17.2	3.98	.73	18.7	5.5
McNair 3034	19.9	4.17	.81	19.2	7.0
Mo 63-277J	19.5	4.17	.90	17.1	5.5
PD 695	19.9	4.05	.88	15.4	7.0
Acala SJ-5	20.1	4.20	.64	13.5	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
PD 4548	84.9	101.3	1.099	1.2	9.3
Coker 6118	85.4	101.7	1.133	1.0	9.6
McNair 3150	85.4	101.7	1.099	0.8	8.9
McNair 3151	93.1	107.7	1.054	2.8	9.8
Stoneville 213	83.4	100.0	1.056	3.8	8.8
Mo. 63-277-1B	81.8	98.8	1.129	3.5	9.2
Coker 4601	82.1	99.0	1.154	1.4	9.4
Stoneville 1395 ...	88.7	104.3	1.065	2.5	9.4
Coker 310	84.2	100.7	1.119	0.2	9.4
Stoneville 1434 ...	93.8	108.2	1.026	2.8	9.6
PD 4585	87.8	103.6	1.093	2.5	9.6
Deltapine 264	94.6	108.9	1.046	4.0	9.9
McNair 3034	86.2	106.3	1.074	1.5	8.7
Mo 63-277J	88.7	104.3	1.108	2.2	9.8
PD 695	77.3	95.2	1.093	1.2	8.4
Acala SJ-5	80.6	97.9	1.106	3.9	8.9

Table 55.--High-quality test: Seed data for Rohwer, Ark.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	18.4	4.11	0.86	15.9	7.0
McNair 3151	20.6	4.07	.98	15.9	6.0
Stoneville 1434 ...	20.3	3.89	1.25	16.0	6.0
McNair 3150	21.8	4.31	.85	15.0	6.0
PD 4585	23.2	4.23	.82	15.8	6.0
Deltapine 264	19.4	4.05	.87	16.2	6.5
Coker 310	21.5	4.34	.78	13.8	7.0
Coker 6118	22.4	4.25	.49	14.1	6.5
Stoneville 1395 ...	23.3	4.34	1.25	12.8	7.0
McNair 3034	22.1	4.24	1.09	12.4	7.0
Mo 63-277J	21.8	4.45	1.18	13.5	7.0
Coker 4601	21.5	4.29	.98	17.0	6.0
PD 4548	23.0	4.07	1.13	15.4	6.0
Mo. 63-277-1B	23.7	4.56	1.28	12.4	7.0
Acala SJ-5	22.1	4.59	.76	11.5	7.0
PD 695	22.8	4.13	.99	14.4	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	88.4	104.1	0.989	1.8	8.7
McNair 3151	103.5	115.6	1.026	2.8	10.6
Stoneville 1434 ...	105.4	117.0	.959	12.2	10.1
McNair 3150	96.7	110.5	1.073	1.2	10.4
PD 4585	102.8	115.1	1.049	2.5	10.7
Deltapine 264	100.1	113.1	1.008	2.8	10.1
Coker 310	92.5	107.2	1.043	3.0	9.6
Coker 6118	102.4	114.7	1.064	0.2	10.9
Stoneville 1395 ...	102.7	115.0	1.009	3.8	10.3
McNair 3034	99.5	112.6	1.036	2.2	10.3
Mo 63-277J	115.9	124.7	1.081	1.8	12.5
Coker 4601	102.9	115.2	1.061	1.0	10.9
PD 4548	100.3	113.2	1.071	2.5	10.7
Mo. 63-277-1B	97.8	111.3	1.111	0.8	10.8
Acala SJ-5	108.0	118.0	1.035	2.2	11.2
PD 695	101.8	114.3	1.069	1.0	10.8

PIMA REGIONAL COTTON VARIETY TEST

Table 56.--Pima test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	22.0 f	3.42 a	0.95 de	6.0 b	11.6 ef
P-34	23.0 bcd	3.38 ab	.93 e	5.1 d	13.2 a
E-11	23.0 bcd	3.28 d	1.11 b	5.4 cd	12.7 b
P-37	22.7 de	3.30 cd	1.03 c	5.8 bc	12.0 c
Pima S-5	23.8 a	3.37 abc	.96 de	5.8 bc	12.1 c
E-12	22.3 ef	3.31 cd	1.01 cd	6.1 ab	11.8 d
P-42	23.4 ab	3.31 bcd	.96 de	6.3 ab	11.7 de
E-9	23.3 abc	3.39 a	1.01 cd	6.6 a	11.5 f
E-10	23.6 a	3.40 a	1.32 a	5.8 bc	11.8 d
P-41	22.9 cd	3.42 a	.83 f	5.8 bc	12.1 c
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	106.8 d	118.0 d	1.068 b	2.4 b	11.4 e
P-34	116.2 b	124.9 b	1.057 c	2.3 b	12.3 b
E-11	121.4 a	128.6 a	1.065 b	1.3 c	12.9 a
P-37	105.4 d	117.0 d	1.086 a	2.0 bc	11.4 de
Pima S-5	111.0 c	120.8 c	1.052 cd	3.6 a	11.6 cd
E-12	122.0 a	129.0 a	1.044 e	3.3 a	12.7 a
P-42	105.1 d	116.8 d	1.048 de	3.7 a	11.0 f
E-9	105.3 d	116.9 d	1.081 a	1.8 bc	11.4 e
E-10	110.0 c	120.4 c	1.083 a	1.9 bc	11.9 c
P-41	117.3 b	125.6 b	1.043 e	3.8 a	12.2 b

Table 57.--Pima test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Safford (Layton), Ariz.	25.0 a	2.94 f	1.17 a	5.3 d	12.2 b
Marana (Clark), Ariz.	22.2 e	3.36 d	1.06 bc	5.3 d	12.2 b
Salome, Ariz.	24.6 a	2.91 f	1.01 cd	6.1 bc	11.6 d
Wenden, Ariz.	22.0 e	3.54 b	.94 de	6.0 bc	11.7 d
Safford (Sta.), Ariz.	22.4 de	3.41 cd	.95 de	5.7 cd	12.1 b
Fabens, Tex.	23.8 b	3.25 e	1.05 c	6.1 bc	12.1 bc
Phoenix, Ariz.	22.7 cd	3.70 a	.94 de	6.9 a	12.1 bc
Safford (Curtis), Ariz.	23.1 c	3.44 c	1.12 ab	5.6 cd	11.9 c
El Paso, Tex.	22.1 e	3.57 b	.96 de	6.3 d	12.2 b
Coolidge, Ariz. ...	22.0 e	3.46 c	.90 e	6.4 ab	12.4 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Safford (Layton), Ariz.	112.6 ab	122.2 ab	1.070 bc	2.4 c	12.0 abc
Marana (Clark), Ariz.	113.0 ab	122.5 ab	1.077 ab	1.4 d	12.1 ab
Salome, Ariz.	110.9 c	113.3 c	1.074 ab	2.4 c	10.8 d
Wenden, Ariz.	112.9 ab	122.5 ab	1.071 bc	1.6 d	12.1 abc
Safford (Sta.), Ariz.	115.0 a	124.0 a	1.047 e	3.3 ab	12.0 abc
Fabens, Tex.	114.4 a	123.5 a	1.040 e	4.0 a	11.9 bc
Phoenix, Ariz.	113.5 a	122.9 ab	1.080 a	2.8 bc	12.2 a
Safford (Curtis), Ariz.	110.7 b	120.9 b	1.066 c	2.9 bc	11.8 c
El Paso, Tex.	113.0 ab	122.6 ab	1.054 d	2.6 bc	11.9 bc
Coolidge, Ariz. ...	114.7 a	123.7 a	1.045 e	2.8 bc	12.0 abc

Table 58.--Pima test: Combined seed data for Phoenix, Coolidge, Marana, Salome, and Wenden, Ariz., by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	21.8	3.44	0.92	6.1	11.5
P-34	22.9	3.36	.91	5.3	13.4
P-42	23.2	3.32	.90	6.8	11.5
Pima S-5	23.6	3.34	.94	6.2	12.2
P-37	22.3	3.35	.98	6.0	12.0
P-41	22.7	3.45	.79	5.9	12.1
E-11	22.5	3.38	1.07	4.7	12.6
E-9	23.0	3.40	.94	7.0	11.4
E-12	21.7	3.42	.94	6.5	11.7
E-10	23.2	3.46	1.31	6.0	11.7
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	105.7	117.2	1.076	1.7	11.3
P-34	113.9	123.3	1.064	1.8	12.1
P-42	103.5	115.6	1.054	3.2	10.9
Pima S-5	111.0	120.5	1.063	3.0	11.8
P-37	104.9	116.7	1.091	2.2	11.4
P-41	115.4	124.3	1.055	3.1	12.2
E-11	121.7	128.8	1.068	0.7	13.0
E-9	104.3	116.1	1.086	1.5	11.3
E-12	121.9	128.9	1.045	2.9	12.7
E-10	107.6	118.6	1.092	2.1	11.7

Table 59.--Pima test: Combined seed data for El Paso and Fabens, Tex., and Safford, Ariz. (Station, Curtis and Layton farms), by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-11	23.4	3.18	1.14	5.1	12.8
P-34	23.1	3.40	.96	5.5	12.0
P-39	22.1	3.40	.97	6.0	11.7
E-12	22.9	3.19	1.08	5.7	12.0
E-9	23.6	3.38	1.09	6.2	11.6
E-10	23.9	3.34	1.34	5.6	12.0
P-37	23.1	3.25	1.07	5.6	12.1
Pima S-5	24.0	3.41	.98	5.5	12.0
P-42	23.7	3.31	1.01	5.8	11.9
P-41	23.0	3.38	.88	5.7	12.2
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
E-11	121.0	128.3	1.062	2.0	12.9
P-34	118.5	126.6	1.049	1.9	12.4
P-39	107.9	118.8	1.059	3.1	11.4
E-12	112.0	129.0	1.044	3.8	12.7
E-9	106.4	117.8	1.076	2.2	11.4
E-10	112.6	122.3	1.074	1.8	12.1
P-37	105.9	117.4	1.081	1.9	11.4
Pima S-5	111.0	121.2	1.041	4.2	11.5
P-42	106.8	118.0	1.042	4.3	11.1
P-41	119.1	126.9	1.031	4.5	12.3

Table 60.--Pima test: Seed data for Safford, Ariz. (Layton farm)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	24.3	3.04	1.13	5.2	12.0
P-34	24.8	3.04	1.04	5.1	13.0
P-37	24.3	2.97	1.20	6.0	12.0
E-9	25.1	2.91	1.25	5.6	12.0
E-11	24.6	2.75	1.18	5.3	12.5
E-12	24.1	2.83	1.17	4.2	12.0
Pima S-5	26.3	3.01	1.13	6.0	12.0
P-42	25.9	2.98	1.11	5.5	12.0
E-10	25.9	2.90	1.50	5.3	12.0
P-41	25.0	3.11	.98	4.8	12.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	104.7	116.5	1.081	3.2	11.3
P-34	116.7	125.3	1.055	3.0	13.2
P-37	102.6	115.0	1.096	1.2	11.2
E-9	101.3	113.9	1.092	1.0	11.0
E-11	119.8	127.5	1.068	2.0	12.8
E-12	125.9	131.1	1.051	2.8	13.1
Pima S-5	107.0	118.2	1.059	4.2	11.3
P-42	107.6	118.7	1.063	2.2	11.4
E-10	111.9	121.8	1.085	0.5	12.1
P-41	129.5	134.3	1.054	3.5	13.6

Table 61.--Pima test: Seed data for Wenden, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	21.4	3.62	0.89	6.0	11.0
Pima S-5	22.6	3.51	.77	5.3	12.0
P-42	22.8	3.36	.84	6.6	11.0
P-34	21.8	3.55	.79	4.7	13.0
P-41	23.1	3.54	.80	6.3	12.0
E-9	22.1	3.57	1.06	6.8	11.0
E-10	22.8	3.59	1.37	6.0	11.5
P-37	21.4	3.56	.82	6.0	12.0
E-12	20.9	3.60	1.00	7.0	11.5
E-11	21.9	3.55	1.07	5.8	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	106.3	117.7	1.079	2.0	11.4
Pima S-5	114.3	123.5	1.057	1.8	12.1
P-42	102.4	114.8	1.053	2.8	10.8
P-34	113.1	122.6	1.065	1.0	12.0
P-41	115.2	124.2	1.062	2.2	12.3
E-9	107.8	118.8	1.090	0.5	11.7
E-10	112.6	122.3	1.085	0.8	12.2
P-37	106.1	117.6	1.106	1.5	11.7
E-12	124.6	130.9	1.047	3.0	12.9
E-11	127.3	132.8	1.067	0.5	13.6

Table 62.--Pima test: Seed data for Marana, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	21.3	3.35	1.04	5.3	12.0
E-11	22.0	3.23	1.26	4.2	13.0
P-34	22.0	3.33	.97	4.8	13.0
P-37	22.0	3.31	1.12	6.0	12.0
E-12	22.1	3.35	1.09	4.6	12.0
P-42	22.7	3.37	.97	6.4	12.0
Pima S-5	23.1	3.37	.96	6.1	12.0
E-9	22.6	3.40	.98	6.2	12.0
E-10	22.6	3.35	1.45	4.8	12.0
P-41	21.7	3.52	.82	4.7	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	107.7	118.7	1.099	0.5	11.8
E-11	119.6	127.4	1.080	0.2	13.0
P-34	115.7	124.5	1.056	1.5	12.2
P-37	107.5	118.6	1.094	0.8	11.7
E-12	125.7	131.6	1.063	1.8	13.3
P-42	106.0	117.4	1.056	2.8	11.2
Pima S-5	115.4	124.3	1.067	1.8	12.3
E-9	107.5	118.5	1.089	0.2	11.7
E-10	108.7	119.5	1.109	1.2	12.0
P-41	116.1	124.8	1.057	3.2	12.2

Table 63.--Pima test: Seed data for Salome, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Pima S-5	25.8	2.91	1.02	6.2	12.0
P-39	23.7	3.06	.92	6.6	11.0
P-34	24.5	3.01	.94	5.4	13.0
E-9	25.0	2.73	.92	7.0	11.0
E-12	24.0	2.86	1.01	7.2	11.0
E-11	24.7	2.77	1.13	5.5	12.0
E-10	25.1	2.90	1.27	6.3	11.0
P-42	24.8	2.97	.91	6.3	11.0
P-41	25.2	2.89	.89	4.9	12.0
P-37	23.4	2.99	1.08	5.9	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Pima S-5	98.8	109.6	1.080	3.8	10.7
P-39	98.2	111.6	1.083	1.8	10.6
P-34	107.2	118.4	1.071	1.5	11.4
E-9	90.5	105.7	1.099	1.5	9.9
E-12	108.2	119.1	1.049	2.5	11.3
E-11	114.9	124.0	1.054	0.8	12.1
E-10	100.4	113.3	1.077	2.2	10.8
P-42	92.9	107.5	1.064	3.5	9.9
P-41	102.4	114.8	1.069	3.8	10.9
P-37	95.5	109.6	1.091	2.2	10.4

Table 64.--Pima test: Seed data for Phoenix, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-42	23.5	3.54	0.95	7.6	11.5
P-34	23.5	3.46	.91	5.8	14.0
P-39	21.7	3.61	.87	6.6	11.5
P-41	22.0	3.73	.75	7.3	12.0
P-37	23.0	3.49	.95	6.4	12.0
Pima S-5	23.2	3.63	1.02	6.6	12.0
E-9	23.1	3.89	.89	8.0	11.0
E-11	22.7	3.92	1.05	6.7	13.0
E-12	21.4	3.82	.83	6.9	12.0
E-10	23.1	3.97	1.23	6.6	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-42	104.1	116.0	1.066	4.0	11.1
P-34	116.1	124.8	1.068	3.0	12.4
P-39	107.1	118.3	1.066	2.8	11.4
P-41	119.6	127.3	1.057	3.5	12.6
P-37	109.3	119.9	1.081	3.8	11.8
Pima S-5	115.0	124.0	1.065	2.8	12.2
E-9	107.5	118.5	1.097	1.8	11.8
E-11	123.2	129.9	1.100	0.8	13.5
E-12	127.4	132.8	1.068	3.0	13.6
E-10	106.3	117.7	1.138	2.8	11.8

Table 65.--Pima test: Seed data for Fabens, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-34	24.1	3.25	0.99	5.3	13.0
E-11	24.2	3.21	1.23	5.3	13.0
P-39	21.3	3.38	.86	6.8	11.5
E-9	24.3	3.38	1.16	6.6	11.5
P-37	24.5	3.11	1.05	5.6	12.0
E-10	24.9	3.13	1.32	6.0	12.0
P-41	23.2	3.34	.86	5.9	12.0
Pima S-5	24.2	3.36	.99	6.5	12.0
E-12	24.4	3.02	1.10	6.7	12.0
P-42	23.3	3.31	.96	6.0	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-34	122.2	129.2	1.035	3.2	12.6
E-11	127.4	132.8	1.066	1.5	13.6
P-39	113.2	122.7	1.031	4.5	11.6
E-9	114.5	123.7	1.069	2.8	12.2
P-37	103.5	115.7	1.070	2.0	11.0
E-10	114.0	123.3	1.064	2.0	12.1
P-41	116.7	125.3	1.002	6.0	11.7
Pima S-5	115.0	124.0	1.017	6.5	11.7
E-12	115.5	124.4	1.036	5.8	11.9
P-42	101.6	114.2	1.015	5.5	10.3

Table 66.--Pima test: Seed data for Safford, Ariz. (Station)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-11	23.0	3.20	1.06	5.4	13.0
P-34	22.3	3.53	.88	5.1	13.0
E-10	22.5	3.35	1.18	5.1	12.0
P-39	21.7	3.48	.92	6.5	12.0
E-12	21.9	3.23	.97	6.2	12.0
Pima S-5	22.8	3.54	.92	5.7	12.0
P-37	22.1	3.43	.94	5.8	12.0
P-42	23.1	3.36	.88	5.4	13.0
E-9	22.8	3.47	1.00	5.9	11.0
P-41	22.2	3.49	.78	5.6	12.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
E-11	118.4	126.5	1.046	3.0	12.4
P-34	119.1	127.0	1.046	3.0	12.4
E-10	113.5	122.9	1.051	2.5	11.9
P-39	109.4	120.0	1.051	2.2	11.5
E-12	124.2	130.5	1.021	4.5	12.7
Pima S-5	114.5	123.7	1.034	4.2	11.8
P-37	113.3	122.8	1.071	3.5	11.8
P-42	111.2	121.3	1.042	4.2	11.6
E-9	106.4	117.8	1.069	2.5	11.3
P-41	120.3	127.8	1.044	3.2	12.5

Table 67.--Pima test: Seed data for Safford, Ariz. (Curtis Farm)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-12	22.3	3.40	1.09	5.2	12.0
E-11	23.1	3.28	1.20	5.3	12.5
P-39	22.4	3.53	1.11	5.9	11.0
E-10	23.8	3.55	1.44	5.6	12.0
E-9	23.0	3.46	1.06	7.0	11.5
P-34	23.0	3.51	1.01	4.2	13.0
P-37	22.7	3.30	1.19	5.6	12.0
P-42	23.9	3.42	1.14	7.1	11.5
Pima S-5	24.0	3.51	1.07	4.3	12.0
P-41	23.0	3.47	.94	6.1	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
E-12	125.1	131.2	1.049	3.5	13.1
E-11	117.4	125.7	1.071	1.5	12.5
P-39	109.0	119.6	1.073	3.5	11.7
E-10	112.1	121.9	1.090	1.5	12.2
E-9	100.6	113.4	1.071	3.2	10.7
P-34	114.7	123.8	1.054	3.0	12.1
P-37	105.0	116.8	1.089	1.2	11.4
P-42	103.0	115.2	1.063	4.0	10.9
Pima S-5	108.2	119.1	1.063	2.2	11.5
P-41	112.4	122.2	1.040	5.5	11.7

Table 68.--Pima test: Seed data for El Paso, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-11	22.2	3.44	1.06	4.4	13.0
E-12	21.9	3.50	1.07	6.0	12.0
P-34	21.6	3.69	.87	5.1	13.0
E-10	22.7	3.77	1.26	5.9	12.0
E-9	23.0	3.67	.97	5.9	12.0
P-37	22.2	3.47	.98	4.7	12.5
P-39	21.0	3.59	.82	5.4	12.0
Pima S-5	22.7	3.64	.82	4.8	12.0
P-41	21.9	3.50	.83	6.0	12.0
P-42	22.3	3.48	1.00	4.6	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
E-11	122.3	129.3	1.060	1.8	12.9
E-12	120.5	128.0	1.062	2.2	12.8
P-34	120.0	127.6	1.056	2.0	12.6
E-10	110.5	120.8	1.089	2.5	12.0
E-9	109.5	120.0	1.078	1.2	11.8
P-37	105.1	116.9	1.081	1.5	11.3
P-39	103.1	115.3	1.058	2.0	10.9
Pima S-5	110.5	120.8	1.035	3.8	11.4
P-41	116.7	125.3	1.018	4.0	11.9
P-42	110.6	120.8	1.027	5.2	11.5

Table 69.--Pima test: Seed data for Coolidge, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-42	22.4	3.38	0.85	7.3	12.0
P-39	21.2	3.59	.91	6.2	12.0
E-11	21.5	3.43	.85	6.1	13.0
P-34	22.8	3.47	.97	5.8	14.0
P-37	22.0	3.41	.96	5.8	12.0
Pima S-5	23.5	3.29	.91	6.6	13.0
P-41	21.7	3.59	.72	6.3	12.5
E-12	20.1	3.47	.89	6.9	12.0
E-9	22.3	3.44	.85	7.0	12.0
E-10	22.6	3.50	1.22	6.4	12.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-42	112.4	122.2	1.035	3.0	11.6
P-39	109.2	119.5	1.056	1.5	11.5
E-11	123.7	130.2	1.038	1.0	12.8
P-34	117.8	126.0	1.063	2.0	12.5
P-37	106.4	117.8	1.083	2.5	11.5
Pima S-5	111.3	121.3	1.040	5.0	11.5
P-41	124.0	130.4	1.034	2.5	12.8
E-12	123.8	130.3	.999	4.0	12.3
E-9	108.2	119.1	1.059	3.2	11.4
E-10	110.2	120.5	1.050	3.2	11.5

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J. R. Smith, National Cotton Council of America, Memphis, Tenn.
L. O. Warren, Arkansas Agricultural Experiment Station, Fayetteville, Ark.
H. W. Webb, Coker's Pedigreed Seed Co., Hartsville, S.C.

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(As of January 1979)

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